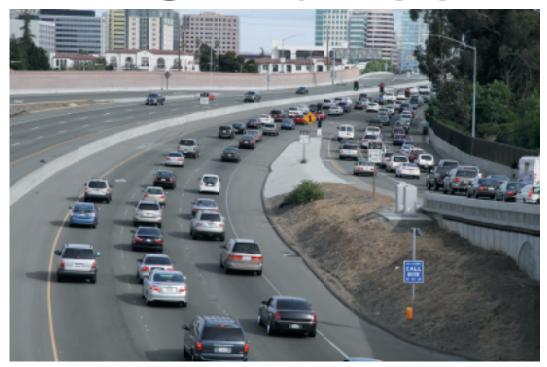
2008 Bay Area HOV Lanes



Volumes, occupancies and violation rates for freeway High Occupancy Vehicle Lanes in the San Francisco Bay Area



California Department of Transportation
District 4 Oakland
Office of Highway Operations



TABLE OF CONTENTS

INTRO	DUCTION		
	Acknowledge	ements	1
	Map of Existing	ng HOV Lanes	3
HOV F	ACILITIES	SUMMARIES	
	Comparison (of HOV Lanes vs. Mixed Flow Lanes	7
		iline HOV Lanes	
	Metered On-F	Ramps with HOV Bypass Lane	10
		HOV Lane On-Ramp	
		/ Lanes Under Construction	
		HOV Lane Projects	
	Proposed HC	OV Lane Projects (not programmed)	16
DATA	SUMMARIE	ES .	
	HOV/ Long Do	eak Hour Volumes	10
	HOV Lane Pe	HOV Lane Peak Hour Comparisons	21
		eak Period Violation Rates	
		eak Hour Time Savings and Average Speeds	
GENER	RAL FACILI	TY INFORMATION	
OLIVE			
		/ LanesOV Bypass Lanes	
	Toll bridge H	OV Dypass Lanes	4 1
MAINL	INE HOV L	ANE	
	VOLUME/P	ERSON DATA & VIOLATION HISTORY	
	ALA-80	San Francisco-Oakland Bay Bridge Toll Plaza	47
	ALA-80	HOV Ramp Flyover [Powell Street to SFOBB]	50
	ALA-80	Contra Costa Co. Line to I-880 Viaduct	
	ALA-84	Dumbarton Bridge Toll Plaza	
	ALA-92	San Mateo-Hayward Bridge Toll Plaza	
	ALA-680	Route 84 to Route 237 Calaveras Blvd	
	ALA-880	Marina Blvd. to Whipple Rd	
	ALA-880 ALA-880	Whipple Rd. to Santa Clara Co. Line	
	CC-4	16th Street to SFOBB Toll Plaza	
	CC-80	Solano Co. Line to Route 4	
	CC-80	Rte 4 to Alameda Co. Line	86
	CC-680	Benicia-Martinez Bridge Toll Plaza	
	CC-680	Marina vista to N/O North Main St	
	CC-680	Livorna Road to Alcosta Blvd	
	MRN-101	Mission Ave. to Richardson Bridge	
	MRN-101	Route 37 to N. San Pedro	
	SCL-85	Route 101 [Mountain View] to Route 280	113
	SCL-85	Route 280 to Almaden Expressway	
	SCL-85	Almaden Expressway to Route 101[So. San Jose]	
	SCL-87	Route 101 I/C to Route 280 I/C	
	SCL-87	Route 280 I/C to Route 85 I/C	
	SCL-101	SM/SCI Co. Line to Ellis St	
	SCL-101	Ellis St. to Guadalupe Parkway	
	SCL-101	Guadalupe Parkway to Route 280/680 I/C	
	SCL-101	Route 280/680 I/C to Bernal Rd.	
	SCL-101	Bernal Rd. to Cochrane Rd	151

TABLE OF CONTENTS

SCL-237	Mathilda Avenue to Route 880/237 Jct	155
SCL-280	Magdalena Ave. to Leland Ave	160
SF-80	HOV-only on-ramp (Sterling Street on-ramp)	164
SM-101	Whipple Avenue to SM/SCI Co. Line	
SOL-80	Carquinez Bridge Toll Plaza	172
SON-101	Steele Lane to Wilfred Ave	174
HOV TOLL GATES		
VOLUME/PE	RSON DATA	
	San Rafael Bridge Toll Plazadge Toll Plaza	

INTRODUCTION

he ANNUAL HOV LANE REPORT is prepared by the California Department of Transportation (Caltrans) District 4 Office of Highway Operations. This report contains information concerning High Occupancy Vehicle (HOV) lanes on the San Francisco Bay Area freeway system. Traffic performance data for mainline HOV lanes and HOV toll gates are provided for calendar year 2008. This data includes, traffic volumes, vehicle occupancies, HOV lane time savings, and HOV lane violation rates. Data for this report is collected twice annually (as resources allow) — once in the spring and once in the fall — when normal commute traffic patterns and conditions generally occur. Volumes and occupancy data for HOV bypass lanes at metered freeway on-ramps are not included in this annual report; however, general information on these ramps is included. The intent of this HOV lane monitoring report is to compile statistics and measurements of collected data. This report should not be construed to be a conclusion on the performance of HOV lanes.

Major changes in 2008:

- A new section of HOV Lane on State Route 84 between Interstate 880 and Newark Blvd., in Alameda County, opened to traffic in the westbound direction on July 31, 2008. The limits of the HOV lane now extend from Interstate 880 to west of the Dumbarton Bridge Toll Plaza, a distance of 2.8 miles.
- A new section of HOV Lane on Interstate 880 from north of Mission Blvd. to south of Mission Blvd., in Alameda County, opened to traffic in the southbound direction on November 17, 2008 and in the northbound direction from Dixon Landing Road to North of Mission Blvd. on November 19, 2008. The limits of the HOV Lane now extend from Marina Blvd. to State Route 237, a distance of 24.5 miles in the southbound direction and from State Route 237 to south of State Route 238, a distance of 21.1 miles in the northbound direction.
- A new section of HOV Lane on U.S. 101 from State Route 12 to Steele Lane, in Sonoma County, opened to traffic in both the northbound and southbound direction on November 10, 2008. The limits of the HOV Lane now extend from Wilfred Ave. to Steele Lane a distance of 6.0 miles.
- A new section of HOV Lane on U.S. 101 from Anderson Dr. to Mission Ave., in Marin County, opened to traffic in the southbound direction on November 13, 2008. The limits of the HOV Lane now extend from Mission Ave. to Richardson Bridge a distance of 6.6 miles.

HOV Report Website: This report is available at www.dot.ca.gov/dist4/.

ACKNOWLEDGMENTS: The following Caltrans personnel contributed to the preparation of this report:

LANCE HALL District 4 HOV Lane Coordinator

Maria L. Castro, Report Coordinator Indra Bhattacharya Adolfo Zepeda Roberto Fuertes Jun Magbitang Marvin Maltez

Joseline Morales-Rabang

For more information, contact:

Mr. H. DAVID SERIANI District Office Chief California Department of Transportation District 4, Office of Highway Operations P.O. Box 23660 Oakland, CA, 94623-0660

e-mail: David Seriani@dot.ca.gov



Department of Transportation

District 4

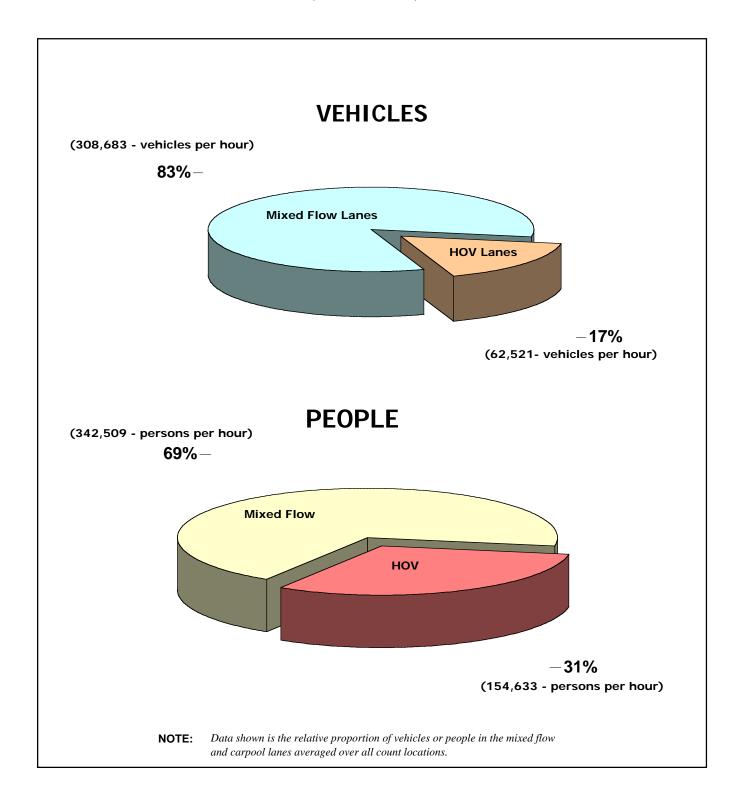
Office of Highway Operations

High-Occupancy Vehicle Lanes in the Bay Area

HOV FACILITIES SUMMARIES

- Comparison of HOV Lanes vs. Mixed Flow Lanes
- Existing Mainline HOV Lanes
- Metered On-Ramps with HOV Bypasses
- Non-Metered HOV Lane On-Ramp
- Mainline HOV Lanes Under Construction
- Programmed HOV Lane Projects
- Proposed HOV Lane Projects (Not Programmed)

COMPARISON OF HOV LANES VS. MIXED FLOW LANES (Peak-Hour)



EXISTING MAINLINE HOV LANES

Route	Dir	Limits	Lane- miles	Min. occ.	Period of	operation*
ALA-80	W/B	Bay Bridge Toll Plaza	1.1	3+	5-10 AM	3-7 PM
ALA-80	W/B	Contra Costa Co. Line to I-880 Viaduct	4.2	3+	5-10 AM	3-7 PM
	E/B	I 880 Viaduct to Contra Costa Co. Line	5.8	3+	5-10 AM	3-7 PM
ALA-84	W/B	I-880 to Dumbarton Bridge Toll Plaza	2.8	2+	5-10 AM	3-6 PM
ALA-92	W/B	Hesperian Blvd to San Mateo Bridge Toll Plaza	2.8	2+	5-10 AM	3-6 PM
ALA-680	S/B	Route 84 to Route 237 Calaveras Blvd.	14.0	2+	5-9 AM	3-7 PM
ALA-880	S/B	Marina Blvd to Santa Clara Co. Line	22.5	2+	5-9 AM	3-7 PM
	N/B	Santa Clara Co. Line to South of Rte 238 I/C	19.1	2+	5- 9 AM	3-7 PM
ALA-880	N/B	West Grand Ave to Rte 80	1.1	3+	5-10 AM	3-7 PM
ALA-880	N/B	16th Street to SFOBB Toll Plaza	1.8	3+	5-10 AM	3-7 PM
CC-04	W/B	Loveridge Road to Port Chicago Hwy	8.7	2+	6-9 AM	
	E/B	Port Chicago Hwy to Railroad Ave.	7.3	2+		3-7 PM
CC-80	W/B	Solano Co. Line to Alameda Co. Line	14.1	3+	5-10 AM	3-7 PM
	E/B	Alameda Co. Line to Rte 4	9.5	3+	5-10 AM	3-7 PM
CC-680	E/B	Benicia-Martinez Bridge Toll Plaza	1.0	3+	5-10 AM	3-7PM
CC-680	S/B	Marina Vista to N/O N. Main St.	7.8	2+	6- 9 AM	3-7 PM
	N/B	Route 242 to Marina Vista I/C	4.4	2+	6- 9 AM	3-7 PM
CC-680	S/B	Livorna Rd to Alcosta Blvd	11.9	2+	6-9 AM	3-6 PM
	N/B	Alcosta Blvd to Livorna Rd	12.9	2+	6- 9 AM	3-6 PM
MRN-101	S/B	Mission Ave. to Richardson Bridge	6.6	2+	6:30-8:30 A	М
	N/B	Richardson Bridge to Nellen Ave. UC	4.3	2+		4:30-7 PM
	S/B	Route 37 to San Pedro Rd	6.1	2+	6:30-8:30 A	M
	N/B	San Pedro Rd to Route 37	6.1	2+		4:30-7 PM
SCL-85	S/B	Rte 101 (Mountain View) to Rte 101 (So. San Jose)	23.8	2+	5- 9 AM	3-7 PM
	N/B	Rte 101 (So. San Jose) to Rte 101 (Mt. View)	24.2	2+	5- 9 AM	3-7 PM
SCL-87	SB	Route 101 I/C to Route 85 I/C	9.6	2+	5 - 9 AM	3-7 PM
	NB	Route 85 I/C to Route 101 I/C	9.2	2+	5 - 9 AM	3-7 PM
SCL-101	S/B	San Mateo Co. Line to Cochrane Rd	34.2	2+	5-9 AM	3-7 PM
	N/B	Cochrane Rd to San Mateo Co. Line	34.8	2+	5- 9 AM	3-7 PM
SCL-237	W/B	Jct. Rte 880/237 to Mathilda Ave	6.1	2+	5-9 AM	3-7 PM
	E/B	Mathilda Ave to Rte 880/237 Jct.	6.5	2+	5- 9 AM	3-7 PM
SCL-280	S/B	Magdalena Ave to Meridian Ave	10.5	2+	5-9 AM	3-7 PM
	N/B	Leland Ave to Magdalena Ave	10.8	2+	5- 9 AM	3-7 PM
SCL-880	S/B	Alameda Co. Line to I-880/SR 237 Junction	2.0	2+	5-9 AM	3-7 PM
	N/B	I-880/SR 237 Junction to Alameda Co. Line	2.0	2+	5- 9 AM	3-7 PM
SM-101	S/B	Whipple Ave to Santa Clara Co. Line	6.7	2+	5-9 AM	3-7 PM
	N/B	Santa Clara Co. Line to Whipple Ave	6.9	2+	5- 9 AM	3-7 PM
SOL-80	W/B	Route 29 to Contra Costa Co. Line	0.9	3+	5-10 AM	3-7 PM
	E/B	Carquinez Bridge Toll Plaza	0.1	3+	5-10 AM	3-7 PM
SON-101	S/B	Steele Ln. to Wilfred Avenue	6.0	2+	7 - 9 AM	3-6:30 PM
	N/B	Wilfred Avenue to Steele Ln.	5.5	2+	7 - 9 AM	3-6:30 PM

TOTAL EXISTING LANE-MILES

375.7

^{*} NOTE: All HOV lanes currently operate Monday thru Friday.

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
ALA-580	EB	Hopyard loop	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Hopyard diagonal	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Hacienda Loop	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Hacienda diagonal	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Santa Rita loop	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-580	EB	Santa Rita diagonal	2:30-7:30 pm	Yes	Jun 30, 2003	
ALA-880	NB	Dixon Landing diagonal	24 hrs	Yes	Mar 30, 2004	
ALA-880	NB	Fremont Blvd loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Auto Mall Pkwy(Durham) loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Auto Mall Pkwy(Durham)diag	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Stevenson Blvd. diagonal	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	E/B Mowry Ave loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Thornton Ave loop	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Thornton Ave diagonal	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 20, 1999	
ALA-880	NB	Industrial Parkway diagonal	24 hrs	Yes	Dec 3, 1996	
ALA-880	NB	Tennyson Rd diag	24 hrs	Yes	Dec 3, 1996	
ALA-880	NB	West A-Street diag	24 hrs	Yes	Dec 3, 1996	
ALA-880	NB	Lewelling Blvd diagonal	24 hrs	Yes	Apr 28, 1999	
ALA-880	NB	98th Ave loop	24 hrs	Yes	Apr 28, 1999	
ALA-880	NB	E/B 23rd Ave. diag	24 hrs	Yes	Apr 28, 1999	
ALA-880	SB	Dixon Landing Loop	24hrs	Yes	Mar 30, 2004	
ALA-880	SB	Fremont Blvd. diag	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Fremont Blvd. loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Auto Mall Pkwy(Durham)Diag	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Auto Mall Pkwy(Durham)loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	W/B Mowry Ave loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Thornton Ave. diagonal	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Thornton Ave. loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Alvarado-Fremont Blvd diag	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Alvarado-Niles Rd diagonal	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Alvarado-Niles Rd loop	24 hrs	Yes	Oct 19, 1999	
ALA-880	SB	Whipple Rd diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	Tennyson Rd diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	Winton Ave diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	West A-Street diag	24 hrs	Yes	Oct 29, 1996	
ALA-880	SB	E/B Davis St(Route 112) diag	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	W/B Davis St(Route 112)loop	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	98th Ave diagonal	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	Hegenberger diagonal	24 hrs	Yes	Apr 27, 1999	
ALA-880	SB	Oak St. diagonal	24 hrs	Yes	Apr 27, 1999	

NOTES:

- (a) Minimum occupancy requirement for all HOV bypass lanes is two persons per vehicle.
- (b) Motorcycles and inherently low-emission vehicles (ILEVs) with DMV issued decal are permitted.
- (c) Bypass lane restrictions are in effect 7 days a week unless noted otherwise.

METERED ON-RAMPS with HOV BYPASS LANES

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SCL-17	NB	Camden Ave diag	24 hrs	Yes	May 11, 2007	7 days/week
						<u> </u>
SCL-85	NB	SB Rte 101 connector	5-9am & 3-7pm	Yes	Sep 20, 2004	Monday - Friday
SCL-85	NB	SB Rte 87 connector	5-9am & 3-7pm	Yes	Jul 8, 2003	Monday - Friday
SCL-85	NB	Bernal Rd Loop	24 hrs	Yes	Sep 20, 2004	7 days/week
SCL-85	NB	Bernal Rd diag	24 hrs	Yes	Aug 26, 1994	7 days/week
SCL-85	NB	Great Oaks Blvd diag	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Cottle Rd diag	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Blossom Hill Rd loop	24 hrs	Yes	Aug 19, 1994	7 days/week
SCL-85	NB	Santa Teresa Blvd loop	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	NB	Almaden Expwy loop	24 hrs	Yes	Mar 19, 1999	7 days/week
SCL-85	NB	Bascom Ave diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-85	NB	Winchester Blvd diag	24 hrs	Yes	Nov 14, 1994	7 days/week
SCL-85	NB	Saratoga Ave diag	24 hrs	Yes	Oct 20, 1994	7 days/week
SCL-85	SB	Almaden Expwy diag	24 hrs	Yes	Oct. 19, 1994	7 days/week
SCL-85	SB	Bascom Ave diag	24 hrs	Yes	Oct. 19, 1994	7 days/week
SCL-85	SB	Camden Ave diag	24 hrs	Yes	Apr 4, 1995	7 days/week
SCL-85	SB	Stevens Creek diag	24 hrs	Yes	Oct 19, 1994	7 days/week
SCL-87	NB	Curtner Ave diag	24 hrs	Yes	Mar 16, 2007	7 days/week
SCL-87	NB	Almaden Expwy diag	24 hrs	Yes	May 11, 2007	7 days/week
SCL-87	NB	Lelong St diag	24 hrs	Yes	May 11, 2007	7 days/week
SCL-101	NB	Bernal Rd diagonal	24 hrs	Yes	Aug 1, 2005	7 days/week
SCL-101	NB	Blossom Hill diag	24 hrs	Yes	Jun 23, 1992	7 days/week
SCL-101	NB	Capitol Expwy diag	24 hrs	Yes	Jul 11, 1997	7 days/week
SCL-101	NB	SB Rte 680 connector	5:30-9am	No	Sep 2, 1982	Monday - Friday
SCL-101	NB	Guadalupe Pkwy connector	5:30-9am	Yes	Feb 12, 1980	Monday - Friday
SCL-101	NB	Trimble Rd diag	24 hrs	Yes	Nov 1, 1991	7 days/week
SCL-101	NB	San Tomas Expwy loop	5:30-9am	No	Feb 12, 1980	Monday - Friday
SCL-101	NB	Montague Expwy diag	24 hrs	Yes	Feb 12, 1980	7 days/week
SCL-101	NB	Lawrence Expwy (nb) loop	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-101	NB	Lawrence Expwy (sb)diag	24 hrs	Yes	Mar 8, 1999	7 days/week
SCL-237	EB	Lawrence Expwy diag	24 hrs	Yes	Aug. 14, 1998	7 days/week
SCL-237	EB	Great America Pkwy diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-237	EB	N. First Street diag	24 hrs	Yes	Sep 24, 1996	7 days/week
SCL-237	EB	Zanker Rd diag	24 hrs	Yes	Sep 24, 1996	7 days/week
		<u> </u>			<u>.</u>	

METERED ON-RAMPS with HOV BYPASS LANE

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SCL-280	NB	Wolfe Rd loop	6-9 am	Yes	Jun 8, 1976	Monday - Friday
SCL-280	SB	Wolfe Rd loop	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-280	SB	Wolfe Rd diag	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-280	SB	De Anza Blvd diag	24 hrs	Yes	Apr 27, 1993	7 days/week
SCL-880	SB	SB Coleman Ave diag	24 hrs	Yes	Jul 27, 2007	7 days/week
SCL-880	SB	NB Coleman Ave loop	24hrs	Yes	Jul 27, 2007	7 days/week
SCL-880	NB	Calaveras Blv (wb) (diag)	24 hrs	Yes	Sep 9, 2003	7 days/week
SCL-880	SB	Dixon Landing diagonal	24hrs	Yes	Mar 30, 2004	7 days/week
SM-101	NB	SB Marsh Rd diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	SB Woodside diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	EB Holly St collector	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	WB Holly St diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	EB Ralston/Marine collector	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	WB Ralston/Marine diag	24 hrs	Yes	Feb 27, 2007	7 days/week
SM-101	NB	EB Hillsdale Blvd loop	24 hrs	No	Feb 27, 2007	7 days/week
SM-101	SB	NB Marsh Rd diag	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-101	SB	NB Woodside diag	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-101	SB	EB Whipple Ave diag	24 hrs	Yes	Jan 30, 2007	7 days/week
SM-101	SB	Ralston-Harbor collector	24 hrs	Yes	Jan 30, 2007	7 days/week

NOTES

⁽a) Minimum occupancy requirement is 3 or more persons per vehicle.

⁽b) 2 - seater vehicles with 2 persons, motorcycles and inherently low-emission vehicles (ILEVs) with DMV issued decal are permitted.

NON-METERED HOV LANE ON-RAMP

Route	Dir	Ramp	Hours	HOVL metered?	HOVL Date opened	Notes
SF-80	EB	Sterling St on-ramp to SFOBB	3:30-7:00 PM	No	Aug 30, 1982	

NOTES

- (a) Minimum occupancy requirement is 3 or more persons per vehicle.
- (b) 2 seater vehicles with 2 persons, motorcycles, trucks and inherently low-emission vehicles (ILEVs) and hybrids with DMV issued decal are permitted.

MAINLINE HOV LANES UNDER CONSTRUCTION

Estimated Opening	County Route	Location	Lane Miles	Min. Occ.
Sept-09	ALA-580	East of Airway Blvd. to E. Greenville Rd. (EB)	6.0	2+
2011	ALA-580	Hacienda to East of Airway Blvd. (EB)	5.3	2+
Feb-09	MRN-101	580/101 Separation to Coleman School POC (EB)	1.6	2+
April-09	MRN-101	Coleman School POC to N. San Pedro Rd.	3.2	2+
2009	SOL-80	Red Top Road to North Texas Street	17.4	2+
2010	SON-101	Bicentennial Way to Windsor	14.2	2+
2010	SON-101	Steele Lane to Bicentennial Way	1.2	2+

TOTAL LANE-MILES UNDER CONSTRUCTION 48.9

PROGRAMMED HOVL PROJECTS (From STIP)

County Route	EA	Location	Construct year	Cost Est. (Prog. year)	Lane Miles
ALA-880	3A920K	Hegenberger Rd. to Marina Blvd. (SB)	2013	\$86,500,000	2.9
CC-4	228500	Loveridge to Somersville	2013	\$77,400,000	4.2
CC-4	228511	Somersville to SR 160	2014	\$350,000,000	7.2
MRN/SON-101	264000	Route 37 to Old Redwood Highway	2016	\$169,400,000	32.9
SCL/ALA-680	286000	Rte 237 to Rte 84 (NB)	2015	\$80,000,000	13.0
SCL-880	298300	U.S. 101 to SR 237	2013	\$73,500,000	8.6
SON-101	129650	Rohnert Park Expwy to Wilfred Ave	2010	\$65,100,000	2.6

TOTAL

\$901,900,000 71.4

PROGRAMMED HOVL PROJECTS (Locally Funded)

County Route	EA	Location	Construct year	Cost (Prog. Year)	Lane Miles
ALA-580	290820	W of Hacienda to Greenville Rd. (WB)	2013	\$114,800,000	13.2
CC-80	263721	West of Rte 4 to Carquinez Bridge (EB)	2011	\$45,300,000	4.7
SON-101	0A1831	Old Redwood Highway to Pepper Road	2013	\$49,900,000	2.8
SON-101	0A18U1	Pepper Rd to Ronhert Park	2011	\$63,600,000	10.0

TOTAL

\$273,600,000 30.7

PROPOSED HOVL PROJECTS (Not Programmed)

County Route	EA	Location	Post-Mile	Cost (Prog. year)	Lane Miles
CC-680	0A610K	NB from North Main to Route 242	15.0/18.8	\$230,000,000	3.8
CC-680	3A580K	SB fron North Main St to Livorna Rd	11.2/15.7	\$348,000,000	3.5
SOL-80	4A440K	Magazine St. to SR 37	0.8/5.6	\$60,000,000	7.7

TOTAL	\$638,000,000	15.0

DATA SUMMARIES

- HOV Lane Peak Hour Volumes
- HOV & Non-HOV Lane Peak Hour Comparisons
- HOV Lane Peak Period Violation Rates
- HOV Lane Peak Hour Time Savings and Average Speeds

HOV LANE PEAK HOUR VOLUMES

			A.M. Peak Hr (veh)	P.M. Peak Hr (veh)
ALA-80	WB	Bay Bridge Toll Plaza	3713	924
ALA-80	WB	Contra Costa Co. Line to Powell St	1604	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	N/A	1439
ALA-80	WB	HOV FLYOVER	1596	387
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza	1526	400
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	1178	555
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd.	875	350
ALA-880	SB	Marina Blvd to Whipple Road	751	1095
		Whipple Road to Santa Clara Co. Line	964	809
	NB	Santa Clara Co. Line to Whipple Road	412	949
		Whipple Road to South of Rte 238 I/C	1011	1205
ALA-880	NB	16th St to SFOBB Toll Plaza	470	N/A
CC-04	WB	Loveridge Road to Port Chicago Hwy	1180	**
	EB	Port Chicago Hwy to Railroad Ave.	**	951
CC-80	WB	Solano Co. Line to Route 4	939	N/A
		Route 4 to Alameda Co. Line	1455	N/A
CC 690	EB	Alameda Co. Line to Route 4	N/A	1343
CC-680	N/B	Benicia-Martinez Bridge Toll Plaza	96	305
CC-680	SB	Marina Vista I/C to N/O North Main St	937	430
	NB	Route 242 to Marina Vista I/C	246	590
CC-680	SB	Livorna Rd. to Alcosta Blvd.	845	791
	NB	Alcosta Blvd. to Livorna Rd.	692	1153
MRN-101	SB	Rte 37 to N. San Pedro Rd	947	**
		Mission Ave. to Richardson Bridge	556	**
	NB	Richardson Bridge to Nellen Ave UC	**	546
		N. San Pedro Rd to Rte 37	**	796
SCL-85	SB	Rte 101 (Mountain View) to Rte 280	N/A	1116
		Rte 280 to Almaden Expwy	N/A	1287
		Almaden Expwy to Rte 101 (So. San Jose)	N/A	951
	NB	Rte 101 (So. San Jose) to Almaden Expwy	619	N/A
		Almaden Expwy to Rte 280	1147	N/A
		Rte 280 to Rte 101 (Mountain View)	1086	N/A
SCL-87	SB	Route 101 I/C to Route 280 I/C	N/A	791
		Route 280 I/C to Route 85/87 Jct	N/A	594
	NB	Route 85/87 Jct to Route 280 I/C	1147	N/A
		Route 280 I/C to Route 101 I/C	627	N/A

HOV LANE PEAK HOUR VOLUMES

A.M. P.M. Peak Hr (veh) Peak Hr (veh) **SCL-101** SB San Mateo Co. Line to Ellis St 918 1269 N/A 919 Ellis St to Guadalupe Pkwy Guadalupe Pkwy to 101/280/680 I/C N/A 1410 101/280/680 I/C to Bernal Rd N/A 699 Bernal Rd to Cochrane Rd N/A 860 NB Cochrane Road to Bernal Road N/A 834 727 Bernal Rd to 101/280/680 I/C N/A 1331 101/280/680 I/C to Guadalupe Pkwy N/A Guadalupe Pkwy to Ellis St 850 N/A Ellis St to San Mateo Co. Line 891 834 **SCL-237** WB Rte 880/237Jct to Mathilda Ave 829 604 ΕB Mathilda Ave to Rte 880/237 Jct. N/A 572 **SCL-280** N/A SB Magdalena Ave to Leland Ave 992 NB Leland Ave to Magdalena Ave 700 N/A **SCL-880** SB Alameda Co. Line to I 880/SR237 Junction NB I 880/SR237 Junction to Alameda Co. Line ~ ~ SM-101 SB Whipple Ave to Santa Clara Co. Line 512 1032 NB Santa Clara Co. Line to Whipple Ave 901 643 **SOL-80** WB N/A Route 29 to Contra Costa County Line N/A EΒ Carquinez Bridge Toll Plaza N/A 962 **SON-101** S/B Steele Ln. to Wilfred Avenue 360 644 N/B Wilfred Avenue to Steele Ln. 461 533

N/A: Due to Resource shortfall 2008 data is not available.

[~] Data collection location not available within these limits.

^{**} HOVL not in operation during this Peak Period.

PEAK HOUR HOV & non-HOV LANE COMPARISONS

ALA-80 WB ALA-84 WB ALA-92 WB ALA-680 SB ALA-880 NB CC-04 WB EB CC-680 NB CC-680 SB NB CC-680 SB NB	Contra Costa Co. Line to Powell Street I 880 Viaduct to Contra Costa Co. Line I-880 to Dumbarton Bridge Toll Plaza Hesperian Blvd to San Mateo Bridge Toll Plaz Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	PM AM	in HOVL * 39% * 12% 19% N/A N/A 18% 31% N/A 25% N/A 13% 14% 19% 18% 16% 20% 21% 30% N/A	in Non-HOVL ** 61% ** 88% 81% N/A N/A N/A 82% 69% N/A 75% N/A 87% 86% 81% 82% 85% 91% 84% 80% 79% N/A	in HOVL * 65% * 28% 36% N/A N/A 39% 50% N/A 40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 35% 38%	in Non-HOVL ** 35% ** 72% 64% N/A N/A 61% 50% N/A 60% N/A 77% 72% 68% 67% 74% 83% 72% 65% 62%	Number of Non-HOV Lanes 18 18 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	in Non-HOVL (Avg per Lane) 2% 4% 16% N/A N/A 15% 17% N/A 20% N/A 26% 24% 23% 22% 25% 28% 24% 22%
ALA-80 WB ALA-84 WB ALA-92 WB ALA-680 SB ALA-880 NB CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Contra Costa Co. Line to Powell Street I 880 Viaduct to Contra Costa Co. Line I-880 to Dumbarton Bridge Toll Plaza Hesperian Blvd to San Mateo Bridge Toll Plaz Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM PM AM PM	* 12% 19% N/A N/A 18% 31% N/A 25% N/A 13% 13% 14% 19% 16% 20% 21% 30% N/A	** 88% 81% N/A N/A 82% 69% N/A 75% N/A 87% 86% 81% 82% 85% 91% 84% 80% 79%	* 28% 36% N/A N/A 39% 50% N/A 40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	** 72% 64% N/A N/A 61% 50% N/A 60% N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	18 4 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	4% 16% N/A N/A 15% 17% N/A 20% N/A 26% 26% 24% 23% 22% 25% 28% 24%
EB	I 880 Viaduct to Contra Costa Co. Line I-880 to Dumbarton Bridge Toll Plaza Hesperian Blvd to San Mateo Bridge Toll Plaz Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM AM	19% N/A N/A 18% 31% N/A 25% N/A 13% 13% 14% 19% 16% 20% 21% 30% N/A	81% N/A N/A 82% 69% N/A 75% N/A 87% 86% 81% 82% 85% 91% 84% 80% 79%	36% N/A N/A 39% 50% N/A 40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	64% N/A N/A 61% 50% N/A 60% N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	4 4 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	16% N/A N/A 15% 17% N/A 20% N/A 26% 26% 24% 23% 22% 25% 28% 24%
ALA-84 WB ALA-92 WB ALA-680 SB ALA-880 SB NB CC-04 WB EB CC-80 WB CC-680 SB NB CC-680 SB NB	I-880 to Dumbarton Bridge Toll Plaza Hesperian Blvd to San Mateo Bridge Toll Plaze Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	y Bridge Toll Plaza y Bridge Toll Plaza AM + 39% + 61% + 65% + ** 35% 18 ntra Costa Co. Line to Powell Street AM 19% 81% 82% ** 88% ** 28% ** 72% 18 ntra Costa Co. Line to Powell Street AM 19% N/A N/A N/A N/A N/A N/A A 30 Viaduct to Contra Costa Co. Line BM N/A	4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	N/A 15% 17% N/A 20% N/A 26% 26% 24% 23% 22% 25% 28% 24%				
ALA-84 WB ALA-92 WB ALA-680 SB ALA-880 SB NB CC-04 WB EB CC-80 NB CC-680 SB NB CC-680 SB NB	I-880 to Dumbarton Bridge Toll Plaza Hesperian Blvd to San Mateo Bridge Toll Plaze Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM	18% 31% N/A 25% N/A 13% 13% 14% 19% 16% 20% 21% 30% N/A	82% 69% N/A 75% N/A 87% 86% 81% 82% 85% 91% 84% 80% 79%	39% 50% N/A 40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	61% 50% N/A 60% N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	15% 17% N/A 20% N/A 26% 26% 24% 23% 22% 25% 28% 24%
ALA-92 WB ALA-680 SB ALA-880 SB NB CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Hesperian Blvd to San Mateo Bridge Toll Plaz Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM AM	31% N/A 25% N/A 13% 13% 14% 19% 18% 15% 9% 16% 20% 21% 30% N/A	69% N/A 75% N/A 87% 87% 86% 81% 82% 85% 91% 84% 80% 79%	50% N/A 40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	50% N/A 60% N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3 3 3 3 3 3 3	17% N/A 20% N/A 26% 26% 24% 23% 22% 25% 28% 24%
ALA-92 WB ALA-680 SB ALA-880 SB NB CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Hesperian Blvd to San Mateo Bridge Toll Plaz Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	a AM PM AM	N/A 25% N/A 13% 13% 14% 19% 18% 15% 9% 16% 20% 21% 30% N/A	N/A 75% N/A 87% 87% 86% 81% 82% 85% 91% 84% 80% 79%	N/A 40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	N/A 60% N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3 3 3 3 3 3 3	N/A 20% N/A 26% 26% 24% 23% 22% 25% 28% 24%
ALA-680 SB ALA-880 SB NB ALA-880 NB CC-04 WB EB CC-80 NB CC-680 NB CC-680 SB NB CC-680 SB SB	Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	a AM PM AM	25% N/A 13% 13% 14% 19% 18% 15% 9% 16% 20% 21% 30% N/A	75% N/A 87% 87% 86% 81% 82% 85% 91% 84% 80% 79%	40% N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	60% N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3 3 3 3	20% N/A 26% 26% 24% 23% 22% 25% 28% 24%
ALA-680 SB ALA-880 SB NB ALA-880 NB CC-04 WB EB CC-80 NB CC-680 NB CC-680 SB NB CC-680 SB SB	Route 84 to Route 237 Calaveras Blvd Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	PM AM	N/A 13% 13% 14% 19% 18% 15% 9% 16% 20% 21% 30% N/A	N/A 87% 87% 86% 81% 82% 85% 91% 84% 80% 79%	N/A 23% 23% 28% 32% 33% 26% 17% 28% 35% 38%	N/A 77% 77% 72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3 3 3	N/A 26% 26% 24% 23% 22% 25% 28% 24%
ALA-880 SB NB ALA-880 NB CC-04 WB EB CC-80 NB CC-680 SB NB CC-680 SB SB	Marina Blvd to Whipple Rd Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	PM AM PM AM PM AM PM AM PM AM PM AM	13% 14% 19% 18% 15% 9% 16% 20% 21% 30% N/A	87% 86% 81% 82% 85% 91% 84% 80% 79%	23% 28% 32% 33% 26% 17% 28% 35% 38%	77% 72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3 3	26% 24% 23% 22% 25% 28% 24%
NB NB CC-04 WB EB CC-680 NB CC-680 SB NB CC-680 SB SB SB SB SB CC-680 SB SB SB SB SB SB CC-680 SB SB SB SB SB CC-680 SB SB SB CC-680 SB SB SB CC-680 CC-680 SB CC-680 SB CC-680 SB CC-680 SB CC-680 CC-680 SB CC-680 CC-680 SB CC-680 SB CC-680 SB CC-680 SB CC-680 CC-680 SB CC-680 CC-680 SB CC-680 CC-680 SB CC-680 CC	Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM AM PM AM PM AM PM AM PM AM	14% 19% 18% 15% 9% 16% 20% 21% 30% N/A	86% 81% 82% 85% 91% 84% 80% 79%	28% 32% 33% 26% 17% 28% 35% 38%	72% 68% 67% 74% 83% 72% 65%	3 3 3 3 3 3 3	24% 23% 22% 25% 28% 24%
NB NB CC-04 WB EB CC-680 NB CC-680 SB NB CC-680 SB SB SB SB SB CC-680 SB SB SB SB SB SB CC-680 SB SB SB SB SB CC-680 SB SB SB CC-680 SB SB SB CC-680 CC-680 SB CC-680 SB CC-680 SB CC-680 SB CC-680 CC-680 SB CC-680 CC-680 SB CC-680 SB CC-680 SB CC-680 SB CC-680 CC-680 SB CC-680 CC-680 SB CC-680 CC-680 SB CC-680 CC	Whipple Rd to Santa Clara Co. Line Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	PM AM PM AM PM AM PM AM PM AM PM AM AM AM AM AM PM	19% 18% 15% 9% 16% 20% 21% 30% N/A	81% 82% 85% 91% 84% 80% 79%	32% 33% 26% 17% 28% 35% 38%	68% 67% 74% 83% 72% 65%	3 3 3 3 3 3	23% 22% 25% 28% 24%
ALA-880 NB CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM AM PM AM PM AM PM	18% 15% 9% 16% 20% 21% 30% N/A	82% 85% 91% 84% 80% 79%	33% 26% 17% 28% 35% 38%	67% 74% 83% 72% 65%	3 3 3 3 3	22% 25% 28% 24%
ALA-880 NB CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Santa Clara Co. Line to Whipple Rd Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	PM AM PM AM PM AM PM AM AM	15% 9% 16% 20% 21% 30% N/A	85% 91% 84% 80% 79% 70%	26% 17% 28% 35% 38%	74% 83% 72% 65%	3 3 3 3	25% 28% 24%
ALA-880 NB CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM AM PM AM PM	9% 16% 20% 21% 30% N/A	91% 84% 80% 79% 70%	17% 28% 35% 38%	83% 72% 65%	3 3 3	28% 24%
CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Whipple Rd to South of Rte 238 I/C 16th Street to SFOBB Loveridge Road to Port Chicago Hwy	AM PM AM PM AM	16% 20% 21% 30% N/A	84% 80% 79% 70%	28% 35% 38%	72% 65%	3	24%
CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	16th Street to SFOBB Loveridge Road to Port Chicago Hwy	PM AM PM AM	21% 30% N/A	79% 70%	38%			22%
CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Loveridge Road to Port Chicago Hwy	AM PM AM	30% N/A	70%		62%		
CC-04 WB EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	Loveridge Road to Port Chicago Hwy	PM AM	N/A		1 1/1%			21%
EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	,	AM		N/A				28%
EB CC-80 WB CC-680 NB CC-680 SB NB CC-680 SB SB	,							N/A 24%
CC-80 WB EB CC-680 NB CC-680 SB NB CC-680 SB SB								26%
CC-680 NB CC-680 SB NB CC-680 SB SB	<u> </u>							18%
CC-680 NB CC-680 SB NB CC-680 SB SB	Colario Co. Emo to reduto 1							N/A
CC-680 NB CC-680 SB NB CC-680 SB SB	Route 4 to Alameda Co. Line	AM						17%
CC-680 NB CC-680 SB NB CC-680 SB SB					N/A	N/A		N/A
CC-680 SB NB CC-680 SB SB	Alameda Co. Line to Route 4							N/A
CC-680 SB NB CC-680 SB SB	Danisia Mautinas Duidea Tall Dlasa ED							18%
NB CC-680 SB SB	Benicia-Martinez Bridge Toli Plaza EB							8% 8%
NB CC-680 SB SB	Marina Vista I/C to N/O North Main St							16%
CC-680 SB SB	Walling Visite 1/0 to 14/0 140fth Wallingt							17%
SB	Route 242 to Marina Vista I/C	AM						21%
SB			14%	86%	26%	74%	4	19%
	Livorna Rd to Alcosta Blvd							23%
	Alacata Dhad ta Livarra - Dil							26%
MDN 404 00	Alcosta biva to Livorna Ra							24% 23%
MRN-101 SB	Rte 37 to N. San Pedro Rd							23%
WINTE TOT OB	Mission Ave. to Richardson Bridge							24%
NB	Richardson Bridge to Nellen Avenue UC							23%
	N. San Pedro Rd to Rte 37		12%		23%	77%	3	26%
SCL-85 SB	Rte 101 (Mtn View) to Rte 280							N/A
	Die 000 to Alexa I							29%
	Rte 280 to Almaden Expwy							N/A
								31% N/A
	Almaden Expwy to Rte 101 (So. San Jose)							34%
NB	Almaden Expwy to Rte 101 (So. San Jose)	AM						37%
	Almaden Expwy to Rte 101 (So. San Jose) Rte 101 (So. San Jose) to Almaden Expwy	PM		N/A	N/A	N/A		N/A
	Rte 101 (So. San Jose) to Almaden Expwy							31%
				N/A	N/A 34%	N/A	2	N/A
	Rte 101 (So. San Jose) to Almaden Expwy	AM PM AM	N/A 22%	78%	4/10/-	66%	2	33% N/A

PEAK HOUR HOV & non-HOV LANE COMPARISONS

				% of all vehicles		% of all Persons			
			!	in HOVL	in Non- HOVL	in HOVL	in Non- HOVL	Number of Non-HOV Lanes	in Non- HOVL (Avg per Lane)
SCL-87	SB	Route 101 I/C to Route 280 I/C	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	21%	79%	35%	66%	2	33%
		Route 280 I/C to Route 85/87 Jct	AM	N/A	N/A	N/A	N/A	2	N/A
		D : 07/07	PM	12%	88%	19%	81%	2	41%
	NB	Route 85/87 Jct to Route 280 I/C	AM	25%	75%	40%	60%	2	30%
		Devite 200 I/C to Devite 404 I/C	PM AM	N/A	N/A	N/A	N/A	2	N/A
		Route 280 I/C to Route 101 I/C	PM	15% N/A	85% N/A	27% N/A	73% N/A	2	36% N/A
SCL-101	SB	San Mateo Co. Line to Ellis St	AM	13%	87%	28%	72%	3	24%
30L-101	OD	Carr Mateo Co. Line to Line Ct	PM	21%	79%	35%	65%	3	22%
		Ellis St to Guadalupe Pkwy	AM	N/A	N/A	N/A	N/A	3	N/A
		Zillo ot to Guadalapo i kiiy	PM	18%	82%	30%	70%	3	23%
		Guadalupe Pkwy to 101/280/680 I/C	AM	N/A	N/A	N/A	N/A	3	N/A
		, , , , , , , , , , , , , , , , , , ,	PM	23%	77%	37%	63%	3	21%
		101/280/680 I/C to Bernal Rd	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	15%	85%	27%	73%	3	24%
		Bernal Rd to Cochrane Rd	AM	N/A	N/A	N/A	N/A	3	N/A
			PM	16%	84%	28%	72%	3	24%
	NB	Cochrane Rd to Bernal Road	AM	19%	81%	32%	68%	3	23%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Bernal Rd to 101/280/680 I/C	AM	13%	87%	22%	78%	3	26%
			PM	N/A	N/A	N/A	N/A	3	N/A
		101/280/680 I/C to Guadalupe Pkwy	AM	18%	82%	28%	72%	3	24%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Guadalupe Pkwy to Ellis St	AM	14%	86%	24%	76%	3	25%
			PM	N/A	N/A	N/A	N/A	3	N/A
		Ellis St to San Mateo Co. Line	AM	13%	87%	24%	76%	3	25%
			PM	13%	87%	24%	76%	3	25%
SCL-237	WB	880/237 Jct to Mathilda Ave	AM	18%	82%	30%	70%	2	35%
		M (171 A D) 000/007 L (PM	14%	86%	25%	75%	2	38%
	EB	Mathilda Ave to Rte 880/237 Jct	AM	N/A	N/A	N/A	N/A	2	N/A
			PM	13%	87%	24%	76%	2	38%
SCL-280	SB	Magdalena Ave to Leland Ave	AM PM	N/A	N/A	N/A	N/A	3	N/A
	ND	Laland Ava to Mandalana Ava	AM	15%	85%	25%	75% 74%	3	25%
	NB	Leland Ave to Magdalena Ave	PM	14%	86%	26%		3	25%
CCI 000	CD	Alameda Co. Line to I 880/SR237 Jct	AM	N/A ~	N/A ~	N/A ~	N/A ~	3 ~	N/A ~
SCL-880	SB	Alameda Co. Line to 1 880/5R237 JCt	PM		~		~	~	~
	NB	I 880/SR237 Jct to Alameda Co. Line	AM	~	~	~	~	~	~
	IND	1 000/31\237 3ct to Alameda Co. Line	PM			~		~	~
SM-101	SB	Whipple Ave to Santa Clara Co. Line	AM	8%	92%	17%	83%	3	28%
SIVI-101	36	Whippie Ave to Santa Clara Co. Line	PM	16%	84%	27%	73%		24%
	NB	Santa Clara Co. Line to Whipple Ave	AM	17%	83%	31%	69%	3	23%
	IND	Santa Glara Go. Line to Whippie Ave	PM	13%	87%	22%	78%	3	26%
SOL-80	WB	Route 29 to Contra Costa Co. Line	AM	N/A	N/A	N/A	N/A	3	N/A
30L-00	VVD	Noute 23 to Contra Costa Co. Lille	PM	N/A N/A	N/A N/A	N/A N/A	N/A N/A	3	N/A N/A
	EB	Carquinez Bridge Toll Plaza	AM	N/A	N/A	N/A	N/A	<u>3</u> 11	N/A
	LD	Odiquillez Diluge 1011 Flaza	PM	20%	80%	40%	60%	11	5%
SON-101	SB	Steele Ln. to wilfred Avenue	AM	10%	90%	17%	83%	2	42%
2014-101	JD	Olegie Lii. to willied Avellue	PM	15%	90% 85%	26%	63% 74%	2	42% 37%
	NB	Wilfred Avenue to Steele Ln.	AM	10%	90%	17%	83%	2	42%
		3a / 17011a0 to 310010 E11.		10/0	00/0	/ 0	00/0		

^{*} Total in all 4 HOVL's combined.

N/A: Due to Resource shortfall 2008 data is not available.

^{**} Total in all 18 Non HOVL's combined.

[~] Data collection location not avaliable within these limits.

HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

	_		A.M.	P.M.
ALA-80	WB	Bay Bridge Toll Plaza	9.0%	9.9%
ALA-80	WB	Contra Costa Co. Line to Powell St	8.4%	N/A
	EB	I 880 Viaduct to Contra Costa Co. Line	N/A	8.8%
ALA-80	WB	HOV FLYOVER RAMP	7.2%	13.6%
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza	0.0%	1.1%
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza	0.0%	1.0%
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd	1.5%	2.6%
ALA-880	SB	Marina Blvd to Whipple Road	2.6%	5.9%
		Whipple Road to Santa Clara Co. Line	0.2%	2.0%
	NB	Santa Clara Co. Line to Whipple Road	1.8%	0.6%
		Whipple Road to South of Rte 238 I/C	2.2%	1.7%
ALA-880	NB	16th St to SFOBB Toll Plaza	2.6% 5.9° 0.2% 2.0° 1.8% 0.6° 2.2% 1.7° 6.5% N// 17.9% ** 3.3° 9.9% N// 10.4% N// N/A 2.5° 3.6% 12.1 1.8% 1.1° 1.3% 2.4° 0.6% 0.8° 0.4% 1.1° 2.0% ** 1.6% ** 1.4°	
CC-04	WB	Loveridge Road to Port Chicago Hwy.	17.9%	**
	EB	Port Chicago Hwy to Railroad Ave	**	3.3%
CC-80	WB	Solano Co. Line to Route 4	9.9%	N/A
		Route 4 to Alameda Co. Line	10.4%	N/A
	EB	Alameda Co. Line to Rte 4	N/A	2.5%
CC-680	NB	Benicia-Martinez Bridge Toll Plaza	3.6%	12.1%
CC-680	SB	Marina Vista to N/O North Main St.	1.8%	1.1%
	NB	Route 242 to Marina Vista I/C	1.3%	2.4%
CC-680	SB	Livorna Rd. to Alcosta Blvd.	0.6%	0.8%
	NB	Alcosta Blvd. to Livorna Rd.	0.4%	1.1%
MRN-101	SB	Rte 37 to N. San Pedro Rd	2.0%	**
		Mission Ave. to Richardson Bridge	1.6%	**
	NB	Richardson Bridge to Nellen Ave UC	**	1.4%
		N. San Pedro Rd to Rte 37	**	0.9%
SCL-85	SB	Rte 101 (Mountain View) to Rte 280	N/A	2.7%
		Rte 280 to Almaden Expwy	N/A	4.0%
		Almaden Expwy to Rte 101 (So. San Jose)	N/A	1.2%
	NB	Rte 101 (So. San Jose) to Almaden Expwy	1.1%	N/A
		Almaden Expwy to Rte 280	0.4%	N/A
		Rte 280 to Rte 101 (Mountain View)	2.0%	N/A
SCL-87	SB	Route 101 I/C to Route 280	N/A	2.9%
		Route 280 to Route 85/87 Jct	N/A	3.8%
	NB	Route 85/87 Jct to Route 280	1.3%	N/A
		Route 280 to Route 101 I/C	6.4%	N/A
SCL-101	SB	San Mateo Co. Line to Ellis St	0.7%	3.1%
		Ellis St to Guadalupe Pkwy	N/A	0.2%
		Guadalupe Pkwy to 101/280/680 I/C	N/A	2.9%
		101/280/680 I/C to Bernal Rd	N/A	0.6%
		Bernal Rd to Cochrane Road	N/A	0.4%

HOV LANE PEAK PERIOD VIOLATION RATE SUMMARY

			A.M.	P.M.
	NB	Cochrane Rd to Bernal Rd	1.0%	N/A
		Bernal Rd to 101/280/680 I/C	0.4%	N/A
		101/280/680 I/C to Guadalupe Pkwy	0.4%	N/A
		Guadalupe Pkwy to Ellis St	3.8%	N/A
		Ellis St to San Mateo Co. Line	0.2%	0.8%
SCL-237	WB	880/237 Jct to Mathilda Ave	0.6%	0.6%
	EB	Mathilda Ave to Rte 880/237 Jct.	0.0%	1.0%
SCL-280	SB	Magdalena Ave to Leland Ave	N/A	2.0%
	NB	Leland Ave to Magdalena Ave	0.9%	N/A
SCL-880	SB	Alameda Co. Line to I 880/SR237 Jct	~	~
	NB	I 880/SR237 Jct to Alameda Co. Line	~	~
SM-101	SB	Whipple Ave to Santa Clara Co. Line	1.4%	0.8%
	NB	Santa Clara Co. Line to Whipple Ave	3.6%	2.4%
SOL-80	WB	Route 29 to Contra Costa Co. Line	N/A	N/A
	EB	Carquinez Bridge Toll Plaza	N/A	13.4%
SON-101	SB	Steele Ln. to Wilfred Avenue	4.1%	2.2%
	NB	Wilfred Avenue to Steele Ln.	3.3%	1.0%

N/A: Due to Resource shortfall 2008 data is not available.

[~] Data collection location not available within these limits. ** HOV not in operation during this Peak Period

HOV LANE PEAK HOUR TIME SAVINGS AND AVERAGE SPEEDS

				(minutes)	(minutes)	HOVL Time Saving (minutes)	(mph)	Avg. Speed (mph) HOVL
ALA-80	WB	Bay Bridge Toll Plaza	AM	28	7	21	2	9
								33
ALA-80	WB	Contra Costa Co. Line to Powell St						42 65
ALA-80 WB Contra Costa Co. Line to Powel EB I 880 Viaduct to Contra Costa Co ALA-80 WB HOV FLYOVER RAMP ALA-84 WB I-880 to Dumbarton Bridge Toll ALA-92 WB Hesperian Blvd to San Mateo B ALA-680 SB Route 84 to Route 237 Calavera ALA-880 SB Marina Blvd. to Whipple Road Whipple Road to Santa Clara Co NB Santa Clara Co. Line to Whipple Whipple Road to South of Rte 2 ALA-880 NB 16th St to SFOBB Toll Plaza CC-04 WB Loveridge Rd. to Port Chicago NB EB Port Chicago Hwy to West of Ra CC-80 WB Solano Co. Line to Route 4 Route 4 to Alameda Co. Line EB Alameda Co. Line to Rte 4 CC-680 NB N/O Marina Vista I/C to Benicia CC-680 SB Marina Vista I/C to N/O North M NB Route 242 to Marina Vista CC-680 SB Livorna Rd to Alcosta Blvd NB Alcosta Blvd to Livorna Rd MRN-101 SB Rte 37 to N. San Pedro Rd Mission Ave. to Richardson Brid NB Richardson Bridge to Nellen Av N. San Pedro Rd to Rte 37 SCL-85 SB Rte 101 (Mtn View) to Rte 280	Lego Viaduat to Contro Costo Co. Line						65	
	ED	1 800 Viaduct to Contra Costa Co. Line	Minimax Mini	35				
ALA-80	WB	HOV FLYOVER RAMP	AM					18
			PM	1	1	0	55	55
ALA-84	WB	I-880 to Dumbarton Bridge Toll Plaza	AM	4	2	2	38	65
		Ç .	PM	3	2	1	54	65
ALA-92	WB	Hesperian Blvd to San Mateo Bridge Toll Plaza						65
								65
ALA-680	SB	Route 84 to Route 237 Calaveras Blvd.						65
								65
ALA-880	SB	Marina Blvd. to Whipple Road						41
								41
		Whipple Road to Santa Clara Co. Line						65 65
								65 65
	NB	Santa Clara Co. Line to Whipple Road						65
		Will be a line of the cooling						65
		Whipple Road to South of Rte 238 I/C						65
A1 A 000	ND	ACH CLAS CEODD TSU DISSE						50
ALA-880	NB	16th St to SPOBB Toll Plaza						50
CC 04	WD	Lavaridas Dd. to Dart Chicago Lhur.						65
CC-04								65
CC 90								65
CC-00	VVD	Solario Co. Line to Route 4						65
		Poute 4 to Alameda Co. Line						48
		Noute 4 to Alameda Co. Line		9	9			65
	FB	Alameda Co. Line to Rte 4	AM	9	9	0	65	65
		, manifesta del Emile te i tito i	PM	28	12	16	20	48
CC-680	NB	N/O Marina Vista I/C to Benicia Bridge Toll Plaz	a AM	4	1	3	8	65
		ŭ		5	1	4	7	65
CC-680	SB	Marina Vista I/C to N/O North Main St	AM	14	7	7	33	65
			PM	7	7	0	63	65
	NB	Route 242 to Marina Vista	AM	4	4	0	64	65
			PM	6	4	2	48	65
CC-680	SB	Livorna Rd to Alcosta Blvd	AM	14	10	4	48	65
			PM	12	10	2	53	65
	NB	Alcosta Blvd to Livorna Rd						65
								65
MRN-101	SB	Rte 37 to N. San Pedro Rd						13
		Mission Ave. to Richardson Bridge*						55
	NB	Richardson Bridge to Nellen Ave. UC						22 65
001.05	0.0							65 65
SCL-85	SB	Rte 101 (Mtn View) to Rte 280						65
		Pto 200 to Almodon Evous						65
		Rte 280 to Almaden Expwy						65
		Almaden Expwy to Rte 101 (So. San Jose)						65
		/ milddoir Expwy to rite 101 (00. Dail 3056)						65
	NB	Rte 101 (So. San Jose) to Almaden Expwy						65
	. 10	(oc. dan dodd) to Almadon Expwy						65
		Almaden Expwy to Rte 280						53
			РМ	12	12	0	65	65
		Rte 280 to Rte 101 (Mtn View)	AM	11	5	6	29	65
		/	PM	5	5	0	65	65

^{*} NOTE: Travel Time data was collected prior to the extension of the HOV Lane to Mission Avenue and is only reported for the section between Andersen Drive and Richardson Bridge.

HOV LANE PEAK HOUR TIME SAVINGS AND AVERAGE SPEEDS

				Travel Time (minutes) Non-HOVL	Travel Time (minutes) HOVL	HOVL Time Saving (minutes)	Avg. Speed (mph) Non-HOVL	Avg. Spec (mph) HOVL
SCL-87	SB	Route 101 I/C to Route 280 I/C	AM	5	5	0	55	55
	02		PM	17	5	12	17	55
		Route 280 I/C to Route 85/87 Jct	AM	4	4	0	65	65
			PM	8	4	4	35	65
	NB	Route 85/87 Jct to Route 280 I/C	AM	13	6	7	29	65
			PM	6	6	0	65	65
		Route 280 I/C to Route 101 I/C	AM	11	3	8	18	65
			PM	3	3	0	65	65
SCL-101	SB	San Mateo Co. Line to Ellis St	AM	6	5	1	51	65
			PM	7	5	2	44	65
		Ellis St to Guadalupe Pkwy	AM	7	6	1	61	65
			PM	23	6	17	18	65
		Guadalupe Pkwy to 101/280/680 I/C	AM	6	5	1	58	65
			PM	9	8	1	39	44
		101/280/680 I/C to Bernal Rd	AM	7	7	0	65	65
			PM	10	7	3	46	65
		Bernal Rd to Cochrane Road	AM	8	8	0	65	65
			PM	9	8	1	60	65
	NB	Cochrane Road to Bernal Road	AM	9	9	0	65	65
			PM	9	9	0	65	65
		Bernal Rd to 101/280/680 I/C	AM	10	8	2	50	65
			PM	8	8	0	63	65
		101/280/680 I/C to Guadalupe Pkwy	AM	13	6	7	23	50
			PM	5	5	0	65	65
		Guadalupe Pkwy to Ellis Street	AM	12	7	5	36	65
			PM	11	7	4	40	65
		Ellis to San Mateo Co. Line	AM	11	5	6	27	65
			PM	13	5	8	23	65
SCL-237	WB	McCarthy Blvd to Mathilda Ave	AM	10	6	4	37	65
			PM	12	6	6	31	65
	EB	Mathilda Ave to Rte 880/237 Jct.	AM	7	6	1	56	65
			PM	18	6	12	22	65
SCL-280	SB	Magdalena Ave to Leland Ave	AM	11	10	1	57	65
			PM	21	10	11	30	65
	NB	Leland Ave to Magdalena Ave	AM	25	10	15	26	65
			PM	11	10	1	59	65
SCL-880	SB	Alameda Co. Line to I-880/SR 237 Jct	AM	1	1	0	54	65
			PM	1	1	0	65	65
	NB	I-880/SR 237 Jct to Alameda Co. Line	AM	2	2	0	60	65
			PM	5	2	3	21	65
SM-101	SB	Whipple Ave to Santa Clara Co. Line	AM	15	6	9	28	65
			PM	12	6	6	35	65
	NB	Santa Clara Co. Line to Whipple Ave	AM	7	6	1	57	65
			PM	7	6	1	57	65
SOL-80	WB	Route 29 to Contra Costa Co. Line	AM	1	1	0	65	65
			PM	1	1	0	65	65
	EB	Carquinez Bridge Toll Plaza	AM	1	1	0	65	65
			PM	1	1	0	65	65
SON-101	SB	Steele Ln. to Wilfred Avenue*	AM	4	4	0	60	65
SON-101			PM	4	4	0	60	65
	NB	Wilfred Ave to Steele Ln.*	AM	7	4	3	34	65

*NOTE: Travel time data was collected prior to the extension of the HOV Lane to Steele Lane and is only reported for the section between Rte 12 and Wilfred Avenue.

GENERAL FACILITY INFORMATION

- Mainline HOV Lanes
- Toll Bridge HOV Bypass Lanes

MAINLINE HOV LANES

ALA-80: San Francisco-Oakland Bay Bridge Toll Plaza

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Lane 1: Route 880 left side HOV ramp to metering signals

Length = 0.4 mile

Lane 2: Route 580 connector to metering signals

Length = 1.1 miles

Lane 21: Route 880 right side HOV ramp to metering signals

Length = 0.6 mile

Lane 22: HOV slip ramp to metering signals

Length = 0.8 miles

DATES: Apr 17, 1970 Opened; Buses only

Dec 8, 1971 Carpools permitted; min. occ. three persons per vehicle Feb 2, 1979 Buses only in lane 17; 6:30-8:30, Mon-Fri-only lane on

W. Grand Ave, approached from Maritime on-ramp to toll plaza;

temporary measure in response to BART tube closure

Apr 17, 1979 Bus-only in lane 17 & W. Grand Ave approach made permanent;

W. Grand Ave slip ramp designated for buses only; hours of operation changed to 6:00-9:00 AM, Mon-Fri; lane 8 reverted to mixed flow; carpools permitted to use lane 10 during AM peak

Oct 12, 1981 Opened; lanes 18 & 19; buses only, 24 hours/day, 7 days/week;

carpools permitted, 6:00-9:00 AM, Mon-Fri; lane 17 reverted to

mixed flow

Jul 18, 1983 Lanes 8 & 9 reverted to mixed flow; lane 1 converted to HOV;

lanes 18/19 merge moved from downstream of toll plaza to

downstream of metering signals

Apr 22, 1986 Mini toll plaza (lane 18, 19, 20) opened; right side HOV lanes

designated as lanes 21 & 22

Sep 7, 1988 Hours of Operation were extended from 6-9 AM to 5-10 AM

on September 7, 1988.

Sep 7, 1988 The HOVL violation fine increased in early 1989.

Nov 3, 1989 Lane 2 converted to HOV; left HOVL extended upstream to 32nd

St on-ramp; AM HOV hours changed to 5:00- 10:00 AM, Mon-Fri

Mar 1, 1992 Motorcycles permitted

Oct 1, 1995 Two-seat vehicles with two occupants permitted

Apr 8, 1997 HOV slip ramp approaching right side of toll plaza opened;

buses only, 24 hours/day, 7 days/week; carpools/motorcycles

OK, 5:00-10:00 AM, 3:00-6:00 PM, Mon-Fri

Jul 23, 1997 Route 880 right side HOV ramp opened; buses only, 24 hours/day,

7 days/week; carpools/motorcycles OK, 5:00-10:00 AM;

3:00-6:00 PM, Mon-Fri

Feb. 2, 1998 PM Hours of operation changed to 3:00-7:00 PM

May 16, 1998 Route 880 left side HOV ramp opened; buses/carpools/

motorcycles only, 5:00-10:00 AM, 3:00-7:00 PM, Mon-Fri

Jul 1, 2000 Inherently low-emission vehicles with DMV issued decals permitted.

ALA-80: HOV FLYOVER

OCCUPANCY Three or more persons per vehicle, motorcycles, 2 seaters vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Powell St (MP 3.8) to HOV Slip Ramp(MP. 4.8)

Length = 1.0 miles

Feb 2, 1998 Opened; HOV flyover. Hours of operation 5:00 AM-7:00 PM,

Monday thru Friday

Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

ALA-80: Contra Costa County Line to I-880 Viaduct

OCCUPANCY Three or more persons per vehicle, motorcycles, 2 seaters vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Contra Costa County Line (MP 8.0) to Powell St (MP 3.8)

Length = 4.2 miles

DATES: Feb. 2, 1998 Opened; Contra Costa County Line to Powell St;

HOV flyover opened; hours of operation 5:00 AM-7:00 PM,

Monday thru Friday

Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: I-880 Viaduct(MP 2.2) to Contra Costa County Line (MP 8.0)

Length = 5.8 miles

DATES: Jul 31, 1998 Opened; Gilman St to Contra Costa County Line

Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

Nov 20, 1998 Extended; Powell St to Gilman St.
Nov 12, 2003 Extended; I 880 Viaduct to Powell St.

ALA-84: I-880 to Dumbarton Bridge Toll Plaza

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

LIMITS: I-880 (MP 5.9) to west of Toll Plaza (MP 3.1)

Length = 2.8 miles

DATES: Oct 6, 1982 Opened with new bridge; 1000-ft long bypass lane at booths

Nov 22, 1989 Extended due to Loma Prieta quake; Newark Blvd to

University Ave

Nov 17, 1990 Shortened; Newark Blvd to west of Toll Plaza

Jan 1, 1992 Minimum occupancy reduced from three to two persons per vehicle

Jul 31, 2008 Extended; I-880/SR 84 Jct to Newark Blvd.

ALA-92: Hesperian Blvd to San Mateo Bridge Toll Plaza

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

LIMITS: Hesperian on-ramp (MP 5.6) to Toll Plaza (MP 2.8)

Length = 2.8 miles

DATES: Oct 23, 1989 Opened; Clawiter Rd on-ramp to east of Toll Plaza

Jan 1, 1992 Minimum occupancy reduced from three to two persons per vehicle

Jan 15, 1992 Extended; Clawiter Rd on-ramp to west of Toll Plaza

Jul 2, 2001 Extended and relocated; Hesperian Blvd. To West of Toll Plaza

Jun 3, 2003 Speed changed from 55mph to 65 mph

July 8, 2007 Lane #1 and #2 opened for HOVs during both AM and PM peak periods.

ALA/SCL-680: Route 84 to Route 237 Calaveras Blvd.

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 84 on-ramp (MP R11.5) to Route 237 Calaveras Blvd. On-ramp (MP M7.6)

Length = 14.0 miles

DATES: Nov 26, 2002 Opened; Washington Blvd. On-ramp to Route 237 Calaveras Blvd. On-ramp

Dec 5, 2002 Extended; Route 84 on-ramp to Route 237 Calaveras Blvd. On-ramp

ALA 880: Marina Blvd to Santa Clara County Line

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Marina Blvd. (MP 22.7) to Santa Clara County Line (MP 0.0)

Length = 22.5 miles

DATES: Sep 22, 1991 Opened; A-Street to north of Tennyson

Nov 6, 1991 Extended; Tennyson to Industrial Pkwy

Jun 26, 1992 Extended; Rte 238 to A-Street

Nov 18, 1993 Extended; Industrial Pkwy to Whipple Rd

Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to

5-9 AM, 3-7 PM respectively

Mar 17, 1995 Extended; Marina Blvd to Rte 238

Jun 15, 1998 Extended; Whipple Rd. to Alvarado/ Fremont Blvd.
Oct 23, 1998 Extended; Alvarado/Fremont Blvd. to Mowry Ave.
Dec 11, 1998 Extended; Mowry Ave. to Mission Blvd. (Rte 262)

Aug 11, 2007 Extended; S/O Mission Blvd. (Rte 262) to Santa Clara County Line Nov 17, 2008 Extended; Mission Blvd. (Rte 262) to S/O Mission Blvd. (Rte 262)

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Santa Clara County Line (MP 0.0) to one mile south of Rte 238 (MP 19.3)

Length = 19.1 miles

DATES: Sep 19, 1991 Opened; north of Tennyson to A-Street

Nov 8, 1991 Extended; Industrial Pkwy to Tennyson

Jun 26, 1992 Extended; A-Street to Rte 238

Dec 3, 1993 Extended; Whipple Rd to Industrial Pkwy

Dec 1994 Hours of operation changed from 5-10 AM and 3-6 PM to

5-9 AM, 3-7 PM respectively

Sep 23, 1996 Shortened; Whipple Rd to one mile south of Rte 238

Jun 15, 1998 Extended; Alvarado/Fremont Blvd. to Whipple Rd.

Oct 30, 1998 Extended; Mowry Ave. to Alvarado/Fremont Blvd.

Nov 30, 1998 Extended; Mission Blvd. (Rte 262) to Mowry Ave.

Nov 11, 2008 Extended; Santa Clara County Line to Mission Blvd. (Rte 262)

ALA-880: 16th Street to SFOBB Toll Plaza

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decal.

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 16th Street to NB Rte 880/WB Rte 80 Jct

Length = 1.4 miles

DATES: May 16, 1998 Opened; 16th Street to left HOV ramp at SFOBB Toll Plaza

ALA-880: West Grand Ave. to EB Rte 80 HOV Lane Merge

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decal.

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: West Grand Ave.(MP R34.7) to EB Rte 80 HOV Lane Merge (MP R35.8)

Length = 1.1 miles

DATES: Nov 12, 2003 Opened; West Grand Ave to EB Rte 80 HOV Lane Merge

CC-4: Loveridge Rd. to Port Chicago Highway

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

WESTBOUND HOURS: 6:00 - 9:00 AM, Monday thru Friday

LIMITS: Loveridge Rd. (MP 24.4) to Port Chicago Highway (MPR 15.7)

Length = 8.7 miles

DATES: May 1, 2000 Opened; Bay Point to Port Chicago Highway; 6-9 AM, Mon-Fri

May 5, 2000 Extended: Bailey Road to Port Chicago Highway

Jul 23, 2001 Extended: West of Railroad Ave. to Port Chicago Highway

Jul 24, 2006 Extended: Loveridge Rd. to Port Chicago Highway

EASTBOUND HOURS: 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Port Chicago Highway (MPR 16.2) to Railroad Ave. (MPR23.5)

Length = 7.3 miles

DATES: Aug 6, 2001 Opened; Port Chicago Highway to West of Railroad Ave.

Jul 24, 2006 Extended: Port Chicago Highway to Railroad Ave.

CC-80 Solano County Line to Alameda County Line

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Solano County Line (MP 14.1) to Alameda County Line (MP 0.0)

Length = 14.1 miles

DATES: Mar 5, 1997 Opened; Pinole Valley Rd to Cutting Blvd; 5-10 AM, Mon-Fri

Apr 18, 1997 2-seat vehicles with 2 persons permitted to use HOVL

May 3, 1997 Extended: Cutting Blvd to Central Ave Sep 20, 1997 Extended; Route 4 to Pinole Valley Rd

Feb 2, 1998 Extended; Central Ave to Alameda County Line;

Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

Aug 31,2007 Extended; Cummings Skyway to Route 4

Nov 17, 2007 Extended; Solano County Line to Cummings Skyway

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Alameda County Line (MP 0.0) to West of Route 4 off-ramp (MP 9.5)

Length = 9.5 miles

DATES: Feb 12, 1997 Opened; San Pablo Dam Rd to Pinole Valley Rd; 3-7 PM, Mon-Fri

Feb 13, 1997 Extended; Cutting Blvd to San Pablo Dam Rd

Apr 18, 1997 2-seat vehicles with 2 persons permitted to use HOVL

May 3, 1997 Extended; Central Ave to Cutting Blvd Aug 30, 1997 Extended; Pinole Valley Rd to Route 4

Feb 2, 1998 Hours of operation changed to 5:00 AM-7:00 PM, Mon-Fri Aug 3, 1998 Hours of operation changed to 5-10 AM, 3-7 PM, Mon-Fri

Extended; Central Ave to Alameda County Line

CC-680: Benicia-Martinez Bridge Toll Plaza to N/O Marina Vista

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decals.

NORTHBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Benicia-Martinez Bridge Toll Plaza (24.5) to North of Marina Vista(24.1)

Length = 1.0 miles

DATES: Aug 26, 2007 Opened; Opened with new bridge; 1.0 mile long bypass lane #1

from N/O Marina Vista to Toll Plaza

CC-680: Marina Vista to N/O North Main St.

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 6:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: South of Marina Vista(MP 24.1) to 0.7 miles N/O North Main St. off-ramp (MP R16.3)

Length = 7.8 miles

DATES: Sep 11, 2004 Opened; S/O Route 4 to N/O North Main St.

Jun 14, 2005 Extended S/O Marina Vista to North Main St.

NORTHBOUND HOURS: 6:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 242 I/C (R018.707) to South of Marina Vista(24.1)

Length = 4.4 miles

DATES: Apr 28, 2005 Opened; Route 242 to South of Marina Vista.

CC-680: Livorna Rd to Alcosta Blvd.

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 6:00 - 9:00 AM, 3:00 - 6:00 PM, Monday thru Friday

LIMITS: 0.5 miles north of Livorna Rd off-ramp (MP R11.9) to north of

Alcosta Blvd on-ramp (MP R21.6)

Length = 11.9 miles

DATES: Oct 3, 1994 Opened; Stone Valley Rd on-ramp to Alcosta Blvd on-ramp

Feb 6, 1995 Extended; Livorna Rd on-ramp to Alcosta Blvd

May 5, 1999 Shortened; Livorna Rd on-ramp to north of Alcosta Blvd off-ramp

NORTHBOUND HOURS: 6:00 - 9:00 AM, 3:00 - 6:00 PM, Monday thru Friday

LIMITS: 0.4 miles south of Alcosta on-ramp (MP R21.6) to Livorna

on-ramp (MP R11.9) Length = 12.9 miles

DATES: Oct 3, 1994 Opened; Alcosta Blvd on-ramp to Stone Valley Rd on-ramp

Feb 6, 1995 Extended; Alcosta Blvd to Livorna Rd on-ramp

MRN-101: Mission Ave. to Richardson Bridge

OCCUPANCY Two or more persons per vehicle, motorcycles permitted, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 6:30 - 8:30 AM, Monday thru Friday

LIMITS: Mission Ave. (MP 11.3) to Richardson Bridge (MP 4.7)

Length = 6.6 miles

DATES: Dec 23, 1974 Opened; buses only

Jun 16, 1976 Carpools permitted; min. occ. three persons per vehicle

Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle

Sep 23, 1990 Motorcycles permitted

Jul 13, 1998 HOV hours extended to 5:00-9:00 AM

Dec 14, 1998 Extended hours cancelled

Jul 17, 2006 Extended; Andersen Dr. to North of Greenbrae ped OC

Nov 13, 2008 Extended; Mission Ave. to Anderson Dr.

NORTHBOUND HOURS: 4:30 - 7:00 PM, Monday thru Friday

LIMITS: South of Richardson Bridge (MP 3.8) to Nellen Ave. UC (MP 8.1)

Length = 4.3 miles

DATES: Dec 20, 1974 Opened; buses only

Jun 15, 1976 Carpools permitted; min. occ. three persons per vehicle

Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle

Sep 23, 1990 Motorcycles permitted

Jul 13, 1998 HOV hours extended to 3:00-7:00 PM

Dec 14, 1998 Extended hours cancelled

Jul 20, 2006 Extended: North of Corte Madera to Nellen Ave. UC

MRN-101: Route 37 to N. San Pedro Road

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 6:30 - 8:30 AM, Monday thru Friday

LIMITS: Route 37/S. Novato Blvd (MP 18.9) to north of San Pedro U/C (MP 12.8)

Length = 6.1 miles

DATES: Jul 24, 1987 Opened; Marinwood to North San Pedro Rd

Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle

Sep 23, 1990 Motorcycles permitted

Feb 8, 1991 Extended; Marinwood to Rte 37

Jul 13, 1998 HOV hours extended to 5:00-9:00 AM

Dec 14, 1998 Extended hours cancelled

NORTHBOUND HOURS: 4:30 - 7:00 PM, Monday thru Friday

LIMITS: North of San Pedro U/C (MP 12.8) to Route 37/S. Novato Blvd (MP 18.9)

Length = 6.1 miles

DATES: Aug 12, 1986 Opened; North San Pedro to Marinwood

Oct 1, 1988 Minimum occupancy reduced from three to two persons per vehicle

Sep 23, 1990 Motorcycles permitted

Feb 21, 1991 Extended; Marinwood to Rte 37
Jul 13, 1998 HOV hours extended to 3:00-7:00 PM

Dec 14, 1998 Extended hours cancelled

SCL-85: Rte 101 (Mountain View) to Rte 101 (San Jose)

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 85/101 connector ramp in So. San Jose (MP 23.8) to Rte 101 in

Mountain View (MP 0.0) Length = 23.8 miles

DATES: Apr 25, 1990 Opened; Rte 237 to Rte 280

Aug 12, 1994 New section; Almaden Expwy to Bernal Rd
Oct 19, 1994 Extended; Rte 280 to Almaden Expwy

Nov 13, 1998 Extended; Rte 101 (Mountain View) to Rte 237

Oct 22, 2004 Opened direct HOV Connector from Rte 85 to Rte 101(San Jose)

May 26, 2006 Opened direct HOV Connector from Rte 101 to Rte 85(Mountain View)

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Rte 85/101 connector ramp in So. San Jose (MP 0.0) to

Rte 101 in Mountain View (MP 24.2)

Length = 24.2 miles

DATES: Feb 22, 1990 Opened; Rte 280 to Rte 237

Aug 12, 1994 New section; Rte 101 (San Jose) to Almaden Expwy

Oct 19, 1994 Extended; Almaden Expwy to Rte 280

Nov 6, 1998 Extended; Rte 237 to Rte 101 (Mountain View)

Sep 20, 2004 Opened direct HOV Connector from Rte 101 to Rte 85(San Jose)

May 26, 2006 Opened direct HOV Connector from Rte 85 to Rte 101(Mountain View)

SCL-87: Route 101 I/C to Route 85 I/C

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 101 I/C to Route 85 I/C

Length = 9.6 miles

DATES: Dec 23, 2004 Opened; Rte 101 to Taylor Avenue

Mar 16, 2007 New Section; Rte 280 to SR 85

Jul 26, 2007 Extended; Taylor Avenue to Route 280

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 85 I/C (MP0.0) to Route 101 I/C (MP9.2)

Length = 9.2 miles

DATES: Apr 18, 2005 Opened; Taylor Avenue to Rte 101

Feb 4, 2007 New Section; SR 85 to Rte 280
May 24, 2007 Extended; Rte 280 to Taylor Avenue

SCL-101: San Mateo County Line to Cochrane Rd

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: San Mateo County Line (MP 52.6) to 0.5 mile north of Cochrane Rd

off-ramp (MP 18.4) Length = 34.2 miles

DATES: Nov 10, 1986 Opened; Lawrence Expwy to De La Cruz Blvd

Aug 8, 1988 Extended; Ellis St to Lawrence Expwy
Oct 10, 1988 Extended; N. Rengstorff Ave to Ellis St

Dec 12, 1988 Extended; San Mateo Co. Line to N. Rengstorff Ave
Jun 15, 1990 New section; Rte 101/280/680 I/C to north of Bernal Rd

Jan 29, 1993 Extended; Rte 880 to Rte 101/280/680 I/C

Apr 5, 1993 Extended; De La Cruz Blvd to Rte 880 Mar 19, 2003 Opened; Bernal Road to Cochrane Road

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Cochrane Rd on-ramp (MP 17.8) to San Mateo County Line (MP 52.6)

Length = 34.8 miles

DATES: Nov 7, 1986 Opened; Guadalupe Pkwy to Great America Pkwy

Oct 10, 1988 Extended; Great America Pkwy to N. Rengstorff Ave
Dec 12, 1988 Extended; N. Rengstorff Ave to San Mateo Co. Line
Jun 7, 1990 New section; Bernal Rd to Rte 101/280/680 I/C
Feb 1, 1993 Extended; Rte 101/280/680 I/C to Old Oakland Rd
Apr 5, 1993 Extended; Old Oakland Rd to Guadalupe Pkwy

May 19, 2003 Opened; Cochrane Rd to Bernal Road

SCL-237: Rte 880 to Mathilda Ave

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles

(ILEVs) with DMV issued decal.

WESTBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Jct. Rte 880/237 (MP 9.3) to east of Mathilda Ave (MP 3.2)

Length = 6.1 miles

DATES: Oct 31, 1984 Opened; Rte 880 to Lawrence Expwy; right side HOVL

Nov/Dec 1991 Extended; Lawrence Expwy to east of Mathilda Ave; right side HOVL

May 1, 1995 Rte 237 upgraded to fwy; HOVL relocated to left lane;

hours expanded to include the PM peak (3-7 PM)

May 1, 2005 Opened direct HOV connectors SB 880/WB 237

EASTBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Mathilda Ave (MP 2.8) to Jct Rte 880/237 (MP 9.3)

Length = 6.5 miles

DATES: Oct 31, 1984 Opened; Lawrence Expwy to Rte 880; right side HOVL

Nov/Dec 1991 Extended; Mathilda Ave to Rte 880

May 1, 1995 Rte 237 upgraded to fwy; HOVL relocated to left lane;

hours expanded to include the AM peak (5-9 AM)

Oct 2, 1996 Shortened; Mathilda Ave to 1.1 miles west of Rte 880 Apr. 29, 2005 Opened; Route 880/237 HOVL Direct Connector

SCL-280: Magdalena Ave to Leland Ave

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Magdalena Ave on-ramp (MP 14.0) to north of Meridian Ave (MP R4.2)

Length = 10.5 miles

DATES: Dec 1, 1990 Opened; Magdalena Ave to north of Meridian Ave

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: South of Leland Ave (MP L4.7) to Magdalena Ave off-ramp (MP 14.0)

Length = 10.8 miles

DATES: Nov 21, 1990 Opened; south of Leland Ave to Magdalena Ave

SCL-880: Alameda County Line to I-880/SR 237 Junction

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Alameda County Line (MP 10.5) to Jct I-880/237 (MP 8.5)

Length = 2.0 miles

DATES: May 1, 2005 Opened; S/O Dixon Landing to I-880/SR 237 Jct.

August 11, 2007 Extended; Alameda County Line To S/O Dixon Landing Rd.

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: I-880/237 Jct (MP 8.5) to Alameda County Line (MP 10.5)

Length = 2.0 miles

DATES: Apr 22, 2005 Opened; I-880/SR 237 Jct to S/O Dixon Landing Rd.

Nov 11, 2008 Extended; S/O Dixon Landing Rd. to Alameda County Line

SM-101: Whipple Ave to Santa Clara County Line

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Whipple Ave (MP 6.9) to Santa Clara Co. Line (MP 0.0)

Length = 6.9 miles

DATES: Jul 18, 1991 Opened

NORTHBOUND HOURS: 5:00 - 9:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Santa Clara Co. Line (MP 0.0) to Whipple Ave (MP 6.6)

Length = 6.6 miles

DATES: Jul 16, 1991 Opened

SOL-80: Route 29 to Contra Costa County Line

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decals.

WESTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: Route 29 (MP 0.9) to Contra Costa County Line (MP 0.0)

Length = 0.9 mile

DATES: Nov 17, 2007 Extended; Route 29 to Contra Costa County Line

SOL-80: Carquinez Bridge Toll Plaza

OCCUPANCY Three or more persons per vehicle, motorcycles, 2-seat vehicles with 2 persons,

inherently low-emission vehicles (ILEVs) with DMV issued decals.

EASTBOUND HOURS: 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

LIMITS: 0.1 miles West of Toll Plaza (MP 0.5) to east of Toll Plaza (MP 0.6)

Length = 0.1 mile

DATES: Jul 1, 1991 Reduced 10c toll tickets for HOVs (with purchase of 50-ticket book)

Oct 1, 1995 Toll-free passage in designated booth only;

Two-seat vehicles with two occupants permitted

Jul 30, 1997 Opened; West of Toll Plaza to east of Toll Plaza

Aug 11, 2007 HOV Lane moved from toll booth #6 to toll booth #1

Oct 29, 2007 HOV allowed in Booth # 11

SON-101: Steele Lane to Wilfred Avenue

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission vehicles (ILEVs)

with DMV issued decal.

SOUTHBOUND HOURS: 7:00 - 9:00 AM, 3:00 - 6:30 PM, Monday thru Friday

LIMITS: Steele Lane to North of Wilfred Avenue

Length = 6.0 miles

DATES: Nov 4, 2002 Opened.

Dec 11, 2003 Hours of Operation changed to 7-9 AM, 3-6:30 PM, MON - FRI

Nov 10, 2008 Extended; Steele Lane to Route 12

NORTHBOUND HOURS: 7:00 - 9:00 AM, 3:00 - 6:30 PM, Monday thru Friday

LIMITS: Wilfred Avenue to S/O Steele Lane

Length = 5.5 miles

DATES: Nov 4, 2002 Opened.

Dec 11, 2003 Hours of Operation changed to 7-9 AM, 3-6:30 PM, MON - FRI

Nov 10, 2008 Extended; Route 12 to Steele Lane

TOLL BRIDGE HOV BYPASS LANES

Antioch Bridges

OCCUPANCY Three or more persons per vehicle, motorcycles, two-seat vehicles

with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.

HOURS 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

TOLL-FREE BOOTHS

Antioch Lanes #2 and #3

DATES Jul 1, 1991 Reduced 10¢ toll tickets for HOVs (with purchase of 50-ticket book)

Oct 1, 1995 Toll-free passage in designated booth only;

Two-seat vehicles with two occupants permitted

Benicia-Martinez Bridge

OCCUPANCY Three or more persons per vehicle, motorcycles, two-seat vehicles

with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.

HOURS 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

TOLL-FREE

Benicia Br. **BOOTHS**

Left side bypass lane and lane #11

DATES See information in Mainline HOV Lane Section

Richmond-San Rafael Bridge

OCCUPANCY Three or more persons per vehicle, motorcycles, two-seat vehicles

with two occupants, inherently low-emission vehicles (ILEVs) with DMV issued decals.

HOURS 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

TOLL-FREE BOOTH

#3, #6

DATES Oct. 23, 1989 Toll-free passage in designated booth only;

> Two-seat vehicles with two occupants permitted Oct 1, 1995 Oct 16, 2007 HOV allowed moved from booth #4 to booth #3

Oct 29, 2007 HOV allowed in Booth #6

TOLL BRIDGE HOV BYPASS LANES

Dumbarton Bridge

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission

vehicles (ILEVs) with DMV issued decal.

HOURS 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

TOLL-FREE

BOOTHS

Dumbarton Left side bypass lane

DATES See information in Mainline HOV Lane section

San Mateo-Hayward Bridge

OCCUPANCY Two or more persons per vehicle, motorcycles, inherently low-emission

vehicles (ILEVs) with DMV issued decal.

HOURS 5:00 - 10:00 AM, 3:00 - 6:00 PM, Monday thru Friday

TOLL-FREE

BOOTHS

San Mateo Left side bypass lanes #1 and #2

DATES See information in Mainline HOV Lane section

San Francisco-Oakland Bay Bridge

OCCUPANCY Three or more persons per vehicle, motorcycles, two-seat vehicles

with two occupants, inherently low-emissions vehicles (ILEVs)

with DMV issued decal.

HOURS 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

TOLL-FREE

BOOTHS

#1, #2, Lanes 21 & 22

DATES See information in Ala-80 Mainline HOV Lane section

TOLL BRIDGE HOV BYPASS LANES

Carquinez Bridge

OCCUPANCY Three or more persons per vehicle, motorcycles, two-seat vehicles

with two occupants, inherently low-emissions vehicles (ILEVs)

with DMV issued decal.

HOURS 5:00 - 10:00 AM, 3:00 - 7:00 PM, Monday thru Friday

TOLL-FREE

BOOTHS

#1, #11

DATES See information in Sol-80 Mainline HOV lane section

MAINLINE HOV LANES

VOLUME/PERSON DATA and VIOLATION HISTORY

Westbound - A.M.

San Francisco-Oakland Bay Bridge Toll Plaza

Typical data for 2008 (6)

PEAK PERIOD (5)

PEAK HOUR

6:00 - 10:00 AM

7:00 - 8:00 AM

VEHICLES		HOV Lanes	Mixed Flow Lanes		HOV Lanes	Mixed Flow Lanes
	Motorcycles	600	_	•	129	_
	Buses (4)	265	_	_	71	_
	Carpools (1)	6615	_		2502	_
	2 - seaters (2)	1509	_	_	485	_
	Hybrid	760		=	207	
	Vanpools	121	_		28	_
	Violators	981	_	_	291	_
	TOTAL	10851	22903 ⁽⁷⁾	_	3713	5812
PERSONS		HOV Lanes	Mixed Flow Lanes		HOV Lanes	Mixed Flow Lanes
	Motorcycles	600	_		129	_
	Buses (4)	9275	_	_	2485	_
	Carpools (1)	20507	_	_	7756	_
	2 - seaters (2)	3018	_		970	_
	Hybrid	760			207	
	Vanpools	1210	_		280	_
	Violators	1417	_		426	_
	TOTAL	36787	26338 ⁽⁷⁾	•	12253	6684

RATES

HOV Lane Occupancy Rate	3.4 persons/veh	3.3 persons/veh
Mixed Flow Occupancy Rate	1.1 persons/veh	1.1 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	9.0 %	7.8 %

NOTES: (1) 3 or more persons per vehicle.

- (2) 2 seater vehicles with 2 persons.
- (3) Violation rate = no. of violators in HOV lane x 100%

Total no. of vehicles in HOV lane

- (4) Assumed AM bus occupancy = 35 persons/vehicle.
- (5) HOV lanes in operation from 5:00 to 10:00 AM.
- (6) Observations conducted 5/28/08 at the SFOBB Toll Plaza.
- (7) Data from Toll Plaza Vehicle Registration Report.

Westbound - P.M.

San Francisco-Oakland Bay Bridge Toll Plaza

Typical data for 2008 (6)

PEAK PERIOD (5)

PEAK HOUR

3:00 - 7:00 PM

5:00 - 6:00 P.M.

VEHICLES	HOV Lanes	Mixed Flow Lanes		HOV Lanes	Mixed Flow Lanes
Motorcycles	257	_		63	_
Buses (4)	219	_		71	_
Carpools (1)	1693	_		458	_
2 - seaters (2)	471	_		125	_
Hybrid	301			99	
Vanpools	59	_		19	_
Violators	330	_		89	
TOTAL	3330	25215	(7)	924	6990
PERSONS	HOV Lanes	Mixed Flow Lanes	_	HOV Lanes	Mixed Flow Lanes
Motorcycles	257	_		63	_
Buses (4)	3504	_		1136	
Carpools ⁽¹⁾	5248			1420	
2 - seaters (2)	942	_		250	
Hybrid	301			99	
Vanpools	472	_		152	
Violators	480	_		134	
TOTAL	11204	30258	(7)	3254	8388
RATES			_		
HOV Lane Occupancy Rate	3.4	persons/veh		3.5	persons/veh
Mixed Flow ⁽⁷⁾ Occupancy Rate	1.1	persons/veh		1.1	persons/veh
Violation rate (3) (HOV Lane)	9.9	%		9.6	%

- **NOTES:** (1) 3 or more persons per vehicle.
 - (2) 2 seater vehicles with 2 persons.
 - (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane
 - (4) Assumed PM bus occupancy = 16 persons/vehicle.
 - (5) HOV lanes in operation from 3:00 to 7:00 P.M.
 - (6) Observations conducted 5/1/08 at the SFOBB Toll Plaza.
 - (7) Data from Toll Plaza Hourly Vehicle Registration Report.

San Francisco-Oakland Bay Bridge

Violation History

Westbound

By Time

	DATE	TOTAL HOVL VOLUME	VIOLATION RATE	Lanes 1 & 2	Lanes 21&22	5 - 6 AM	6 - 7 AM	7 - 8 AM	8 - 9 AM	9 - 10 AM
A.M.	Wed May 28, 2008	10851	9.0%	6.7%	11.3%		13.8%	7.8%	6.0%	7.9%
PEAK	Tue May 22, 2007	11427	6.5%	8.0%	4.9%		10.0%	6.9%	4.0%	5.2%
	Wed May 31, 2006	10394	9.7%	10.3%	9.1%		18.4%	6.8%	6.0%	5.9%
	Tue Nov 15, 2005	10261	9.9%	8.7%	11.2%		13.3%	8.1%	5.8%	16.1%
	Wed Nov 3, 2004	10917	10.0%	8.2%	11.7%	21.4%	12.5%	7.9%	6.3%	9.0%
	Wed May 28, 2003	10803	8.2%	7.4%	9.0%	15.5%	8.4%	7.0%	6.1%	9.6%
	Thu May 9, 2002	11481	9.5%	4.9%	13.8%	22.4%	12.0%	7.5%	3.8%	10.5%
	Wed May 23, 2001	13100	10.0%	7.2%	12.8%	22.3%	12.2%	5.8%	6.9%	10.4%
	Thu Nov 9, 2000	12991	14.7%	8.9%	19.9%	37.8%	16.9%	10.4%	6.4%	14.3%
	Thu Oct 14, 1999	11644	19.5%	9.8%	29.7%	60.1%	32.6%	7.7%	6.9%	11.5%
	Tue Apr 21, 1998	9696	10.6%	7.6%	12.5%	14.2%	22.7%	6.4%	4.1%	9.2%
	Wed Jun 11, 1997	7655	10.9%	1.0%	12.4%	20.9%	10.6%	8.1%	6.0%	21.5%
							3 - 4 PM	4 - 5 PM	5 - 6 PM	6 - 7 PM
P.M.	Thu May 1, 2008	3330	9.9%	7.8%	12.4%		11.8%	9.4%	9.6%	8.9%
PEAK	Wed May 23, 2007	3541	7.8%	5.9%	10.4%		9.4%	7.0%	7.3%	7.9%
	Thu Oct 19, 2006	3645	14.9%	11.0%	19.0%		15.2%	14.8%	14.3%	15.5%
	Tue Oct 25, 2005	3106	16.3%	18.5%	13.5%		20.2%	13.5%	13.9%	18.5%
	Thu Oct 28, 2004	3290	9.1%	10.6%	7.0%		10.9%	7.9%	8.1%	9.6%
	Tue May 27, 2003	3891	14.7%	17.2%	11.8%		24.4%	11.7%	9.3%	15.7%
										4 = 004
	Wed Sep 18, 2002	3327	11.7%	12.7%	15.0%		16.5%	11.6%	10.9%	15.8%
	Wed Sep 18, 2002 Wed Oct 3, 2001	3327 3602	11.7% 9.8%	12.7% 10.6%	15.0% 8.8%		16.5% 12.6%	11.6% 7.6%	10.9% 9.3%	15.8%
	Wed Oct 3, 2001	3602	9.8%	10.6%	8.8%		12.6%	7.6%	9.3%	10.1%
	Wed Oct 3, 2001 Thu Oct 19, 2000	3602 3673	9.8% 25.6%	10.6% 17.0%	8.8% 33.3%		12.6% 32.0%	7.6% 24.4%	9.3% 21.1%	10.1% 0.253

By Lane

- **NOTES:** (a) Two-seater vehicles with 2 persons allowed in HOVL effective October 1, 1995.
 - (b) Hours of operation were extended from 3-6 PM to 3-7 PM on February 2, 1998.
 - (c) Hours of operation from 5:00 to 10:00 AM and 3:00 to 7:00 PM.

Westbound - A.M.

HOV FLYOVER RAMP

Powell Street to SFOBB

Typical data for 2008

PEAK PERIOD

PEAK HOUR

6:00 - 10:00 AM

6:00 - 7:00 AM

VEHICLES	HOV Lane	SOV Lane		HOV Lane	SOV Lane
Motorcycles	160	_		49	_
Buses	66	_		28	_
Carpool (1)	2831			1131	
2 - seaters (2)	743			221	
Hybrid	306			45	
Vanpools	36			18	
Violators	319			104	
TOTAL	4461	N/A		1596	N/A
PERSONS	HOV Lane	SOV Lane	_	HOV Lane	SOV Lane
Motorcycles	160	_		49	_
Buses	2310			980	
Carpool (1)	8776			3506	
2 - seaters (2)	1486			442	
Hybrid	306			45	
Vanpools	360			180	
Violators	467	_		135	_
TOTAL	13865	N/A		5337	N/A
RATES					
HOV Lane occupancy rate	3.1	persons/veh		3.3	persons/veh
Violation rate ⁽³⁾ (HOV Lane)	7.2	. %		6.5	%

- **NOTES:** (1) 3 or more persons per vehicle.
 - $(2) \ \ 2 seater\ vehicles\ with\ 2\ persons.$
 - (3) Violation rate = $\frac{\text{no. of violators in HOV lane } \times 100\%}{\text{Total control of the latter of t$

Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 5:00 to 10:00 AM.
- (5) Observations conducted 10/9/08 at the downstream touchdown of the flyover

Westbound - P.M.

HOV FLYOVER RAMP

Powell Street to SFOBB

Typical data for 2008

PEAK PERIOD (4)

PEAK HOUR

3:00 - 7:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	SOV Lane	HOV La	ane SOV Lane
Motorcycles	91	_	19	_
Buses	157		37	_
Carpool ⁽¹⁾	606		180	_
2 - seaters (2)	175		62	_
Hybrid	137		32	
Vanpools	15	<u> </u>	1	_
Violators	186		26	_
TOTAL	1367	N/A	357	N/A
PERSONS	HOV Lane	SOV Lane	HOV La	ane SOV Lane
Motorcycles	91		19	_
Buses	2512		592	_
Carpool ⁽¹⁾	1879		558	_
2 - seaters (2)	350	<u> </u>	124	_
Hybrid	137		32	
Vanpools	120		8	_
Violators	231		63	_
TOTAL	5320	N/A	1396	6 N/A
RATES				
HOV Lane occupancy rate	3.9	persons/veh		3.9 persons/veh
Violation rate (3) (1) (HOV Lane)	13.6	%		7.3 %

NOTES: (1) 3 or more persons per vehicle.

- (2) 2 seater vehicles with 2 persons.
- (3) Violation rate = no. of violators in HOV lane x 100%

Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:00 to 7:00 PM.
- (5) Observations conducted 10/8/08 at the downstream touchdown of the flyover.

HOV FLYOVER RAMP

Powell Street to SFOBB

Violation History Westbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Thu Oct 9, 2008	6:00 - 10:00 AM	4461	7.2%
Thu May 24, 2007	6:00 - 10:00 AM	4328	11.3%
Thu Jun 8, 2006	5:00 - 10:00 AM	5462	16.3%
Thu Jun 2, 2005	6:00 - 10:00 AM	4848	13.3%
Tue Dec 14, 2004	6:00 - 10:00 AM	2937	16.3%
Wed Nov 5, 2003	6:00 - 10:00 AM	4286	13.9%
Wed May 29, 2002	6:00 - 10:00 AM	4644	2.9%
Wed Mar 28, 2001	5:00 - 10:00 AM	5108	18.6%
Wed May 17, 2000	5:00 - 10:00 AM	5274	16.5%
Wed Apr 21, 1999	7:00 - 10:00 AM	3900	5.6%

P.M. PEAK

Wed Oct 8, 2008	3:00 - 7:00 PM	1367	13.6%
Thu Sep 27, 2007	3:00 - 7:00 PM	1490	10.9%
Wed Oct 25, 2006	3:00 - 7:00 PM	1227	16.2%
Wed May 18, 2005	3:00 - 7:00 PM	1209	20.6%
Wed Nov 3, 2004	3:00 - 6:00 PM	953	17.5%
Tue Nov 4, 2003	3:00 - 6:00 PM	839	26.8%
Tue Sep 17, 2002	3:00 - 7:00 PM	1123	20.4%
Wed Oct 3, 2001	3:00 - 7:00 PM	1045	26.1%
Tue Dec 12, 2000	3:00 - 5:00 PM	490	16.1%
Wed Feb 3, 1999	3:00 - 7:00 PM	946	30.7%

NOTES:

- (a) Morning period of operation from 5:00 to 10:00 AM
- (b) Evening period of operation from 3:00 to 7:00 PM.

Westbound - A.M.

Contra Costa County Line to Powell Street

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

6:00 - 10:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes	
Motorcycles	231	73	57	24	
Buses	48	25	12	6	
Carpools (1)	4128	882	1322	334	
Hybrid _	404	124	103	38	
Vanpools	90	29	14	9	
Single Occ. (2)	_	25326		6440	
Violators	450	_	96	_	
TOTAL	5351	26459	1604	6851	
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes	
Motorcycles	231	73	57	24	
Buses	1680	875	420	210	
Carpools (1)	11983	2269	3833	873	
Hybrid	404	124	103	38	
Vanpools	900	290	140	90	
Single Occ. (2)		27742		7086	
Violators	550		106		
TOTAL	15748	31373	4659	8321	
RATES					
HOV Lane occupancy rate	2.9	ersons/veh	2.9	persons/veh	
Mixed Flow occupancy rate	1.2	2 persons/veh	1.2	1.2 persons/veh	
Overall occupancy (incl. buses)	1.5	persons/veh	1.5	persons/veh	
Violation rate (HOV Lane)	8.4	1 %	6.0	%	

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

(3) Violation rate = no. of violators in HOV lane x 100%

Total no. of vehicles in HOV lane

(4) HOV lane in operation from 5:00 to 10:00 A.M.

(5) Observations conducted 6/3/08 at Ashby Avenue Interchange.

(HOV Lane)

Eastbound - P.M.

I-880 Viaduct to Contra Costa County Line

Typical data for 2008 (5)

	PEAK PERIOD ⁽⁴⁾ 3:00 - 7:00 PM		PEAK 5:00 - 6	
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	324	65	109	15
Buses	73	31	24	4
Carpools (1)	3489	567	1084	126
Hybrid	372	64	127	26
Vanpools	129	76	40	8
1 and 2 Occ. ⁽²⁾	_	24762	_	6278
Violators	422	_	55	_
TOTAL	4809	25565	1439	6457
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	324	65	109	15
Buses	2555	1085	840	140
Carpools (1)	10090	1515	3158	343
Hybrid	372	64	127	26
Vanpools	1290	760	400	80
1 and 2 Occ. ⁽²⁾	_	27101	_	6922
Violators	472	_	79	
TOTAL	15103	30590	4713	7526
RATES				
HOV Lane occupancy rate	3.1	persons/veh	3.3	persons/veh
Mixed Flow occupancy rate	1.2 persons/veh 1.2 pers		persons/veh	
Overall occupancy (incl. buses)	1.5	persons/veh	1.6	persons/veh
Violation rate (3) (HOV Lane)	8.8	%	3.8	%

- **NOTES:** (1) 3 or more persons per vehicle & 2 seater vehicles with 2 persons.
 - (2) Mixed flow lanes only.
 - (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/22/08 at Ashby Avenue Interchange.

Violation History

Contra Costa County Line to Powell Street

Westbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue Jun 3, 2008	6:00 - 10:00 AM	5351	8.4%
Wed May 16, 2007	6:00 - 10:00 AM	5709	11.1%
Thu May 25, 2006	6:00 - 10:00 AM	5114	9.2%
Wed Nov 16, 2005	7:00 - 10:00 AM	3907	9.0%
Wed Nov 17, 2004	7:00 - 10:00 AM	3734	7.9%
Tue Jun 10, 2003	6:00 - 10:00 AM	5181	4.4%
Wed May 8, 2002	6:00 - 10:00 AM	5414	8.7%
Wed May 16, 2001	6:00 - 10:00 AM	5289	13.8%
Thu Oct 5, 2000	7:00 - 10:00 AM	3184	18.5%
Thu Apr 15, 1999	7:00 - 10:00 AM	3156	11.0%

PERIOD

TOTAL HOVL

P.M. PEAK

-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
3:00 - 7:00 PM	3102	18.9%
3:00 - 7:00 PM	1936	24.4%
3:00 - 7:00 PM	2593	25.9%
3:00 - 7:00 PM	2710	21.4%
	3:00 - 7:00 PM 3:00 - 7:00 PM	3:00 - 7:00 PM 1936 3:00 - 7:00 PM 2593

- **NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak directions.

Violation History

I-880 Viaduct to Contra Costa County Line

Eastbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Wed Jun 5, 2002	6:00 - 10:00 PM	677	17.6%
Wed May 30, 2001	6:00 - 10:00 PM	606	21.5%
Tue Dec 19, 2000	7:00 - 10:00 PM	221	7.7%
Tue Apr 20, 1999	7:00 - 10:00 PM	531	20.9%

PERIOD

TOTAL HOVL

P.M. PEAK

Wed Oct 22, 2008	3:00 - 7:00 PM	4809	8.8%
Wed May 16, 2007	3:00 - 7:00 PM	4709	7.9%
Wed May 10, 2006	3:00 - 7:00 PM	5415	10.3%
Tue May 17, 2005	3:00 - 7:00 PM	5048	14.7%
Wed Nov 17, 2004	3:00 - 5:00 PM	1995	21.5%
Thu May 29, 2003	3:00 - 7:00 PM	4225	9.3%
Thu May 16, 2002	3:00 - 7:00 PM	4535	2.7%
Thu Sep 27, 2001	3:00 - 7:00 PM	4655	6.5%
Thu Sep 14, 2000	3:00 - 7:00 PM	4415	3.4%
Wed Oct 20, 1999	3:00 - 7:00 PM	4287	1.3%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM

(b) Evening period of operation from 3:00 to 7:00 PM

(c) Data was not collected in 2008 for off- peak direction

Westbound - A.M.

I-880 to Dumbarton Bridge Toll Plaza

Typical data for 2008 (5)

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	117	0	_	42	0
Buses	43	2		18	2
Carpools (1)	3207	19	_	1430	5
Vanpools	9	1		3	0
Hybrid/Single Occ. (2)	89	9368		33	3464
Violators	0	_	_	0	_
TOTAL	3465	9390	<u>-</u>	1526	3471
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	117	0		42	0
Buses	1505	70		630	70
Carpools (1)	6414	40		2860	12
Vanpools	90	10	_	30	0
Hybrid/Single Occ. (2)	89	9368		33	3464
Violators	0			0	
TOTAL	8215	9488		3595	3546
RATES					
HOV Lane occupancy rate	2.4	persons/veh	_	2.4	persons/veh
Mixed Flow occupancy rate	1.0	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.4	persons/veh	_	1.4	persons/veh
Violation rate (3) - (HOV Lane)	0.0	%	· -	0.0	%

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 5:00 to 10:00 A.M.
- (5) Observations conducted 10/23/08 at Dumbarton Bridge Toll Plaza.

Westbound - P.M.

I-880 to Dumbarton Bridge Toll Plaza

Typical data for 2008 (5)

PEAK	PERIOD	(4)
-------------	--------	-----

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	33	0		12	0
Buses	20	7	_	8	2
Carpools (1)	936	137	_	359	47
Vanpools	7	3	_	1	2
Hybrid/Single Occ. (2)	37	2760	_	17	1000
Violators	12		_	3	
TOTAL	1045	2907		400	1051
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	33	0		12	0
Buses	700	245	_	280	70
Carpools (1)	2191	296	_	848	104
Vanpools	70	30	_	10	20
Hybrid/Single Occ. (2)	37	2760	_	17	1000
Violators	12		_	3	_
TOTAL	3043	3331		1170	1194
RATES			_		
HOV Lane occupancy rate	2.9	persons/veh	_	2.9	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.6	persons/veh	_	1.6	persons/veh
Violation rate ^{(3) -} (HOV Lane)	1.1	%		0.8	%

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:00 to 6:00 P.M.
- (5) Observations conducted 05/01/08 at Dumbarton Bridge Toll Plaza.

I-880 to Dumbarton Bridge Toll Plaza

Violation History

Westbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu Oct 23, 2008	6:00 - 9:00 AM	3465	0.0%
Wed Nov 7, 2007	6:00 - 9:00 AM	3114	0.8%
Wed Sep 27, 2006	6:00 - 9:00 AM	3045	0.6%
Thu Oct 20, 2005	6:00 - 9:00 AM	2769	1.4%
Thu Oct 14, 2004	6:00 - 9:00 AM	2495	0.6%
Thu Jun 5, 2003	6:00 - 9:00 AM	2496	0.9%
Tue May 14, 2002	6:00 - 9:00 AM	3044	3.5%
Tue Apr 10, 2001	6:00 - 10:00 AM	4480	3.1%
Thu Oct 19, 2000	6:00 - 9:00 AM	4106	3.5%
Tue Mar 16, 1999	6:00 - 9:00 AM	3906	5.7%
Thu Apr 2, 1998	6:00 - 9:00 AM	3601	0.4%
Tue Apr 29, 1997	6:00 - 9:00 AM	2900	16.9%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu May 1, 2008	3:00 - 6:00 PM	1045	1.1%
Wed Apr 4, 2007	3:00 - 6:00 PM	1148	3.7%
Tue Sep 26, 2006	3:00 - 6:00 PM	1035	1.0%
Tue May 10, 2005	3:00 - 6:00 PM	1032	1.1%
Year 2004	-	-	-
Thu May 8, 2003	3:00 - 6:00 PM	995	1.1%
Wed Jun 12, 2002	3:00 - 6:00 PM	959	1.8%
Tue Mar 20, 2001	3:00 - 6:00 PM	919	2.2%
Thu Oct 19, 2000	3:00 - 6:00 PM	849	3.1%
Wed Sep 22, 1999	3:00 - 6:00 PM	949	2.0%
Wed Apr 15, 1998	3:00 - 6:00 PM	981	1.6%
Thu Oct 2, 1997	3:00 - 6:00 PM	819	6.6%

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.

⁽b) Evening period of operation from 3:00 to 6:00 PM.

⁽c) Data was not collected in 2004 for off-peak direction

Westbound - A.M.

Hesperian Boulevard to San Mateo Bridge Toll Plaza

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	58	3		14	1
Buses	10	2		3	1
Carpools (1)	2705	65	_	1151	29
Vanpools	6	1	_	3	1
Hybrid/Single Occ. (2)	20	10067		7	3567
Violators	0	_		0	_
TOTAL	2799	10138		1178	3599
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	58	3	_	14	1
Buses	350	70		105	35
Carpools (1)	5413	137		2302	59
Vanpools	60	10	_	30	10
Hybrid/Single Occ. (2)	20	10067		7	3567
Violators	0			0	
TOTAL	5901	10287		2458	3672
RATES			_		
HOV Lane occupancy rate	2.1	persons/veh		2.1	persons/veh
Mixed Flow occupancy rate	1.0	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.3	persons/veh
Violation rate ⁽³⁾ - (HOV Lane)	0.0	%	_	0.0	%

- **NOTES:** 1) Two or more persons per vehicle.
 - $(2) \ \ \textit{Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only}.$
 - (3) Violation rate = no. of violators in HOV lane x 100%Total no. of vehicles in HOV lane
 - (4) HOV lane in operation from 5:00 to 10:00 A.M.
 - (5) Observations conducted 11/20/08 at San Mateo Bridge Toll Plaza.

Westbound - P.M.

Hesperian Boulevard to San Mateo Bridge Toll Plaza

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	56	11		30	2
Buses	7	1	_	1	1
Carpools (1)	1345	409	_	494	121
Vanpools	13	11	_	7	2
Hybrid/Single Occ. (2)	43	5640		20	1947
Violators	15	_		3	_
TOTAL	1479	6072	_	555	2073
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	56	11	_	30	2
Buses	245	35		35	35
Carpools (1)	2862	855		1044	255
Vanpools	130	110	_	70	20
Hybrid/Single Occ. (2)	43	5640	_	20	1947
Violators	15			3	
TOTAL	3351	6651		1202	2259
RATES			_		
HOV Lane occupancy rate	2.3	persons/veh	_	2.2	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	-	1.3	persons/veh
Violation rate ⁽³⁾ - (HOV Lane)	1.0	%	=	0.5	%

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:00 to 6:00 P.M.
- (5) Observations conducted 05/15/08 at San Mateo Bridge Toll Plaza.

Violation History

Hesperian Blvd. to West of San Mateo - Hayward Bridge Toll Plaza

Westbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu Nov 20, 2008	6:00 - 9:00 AM	2799	0.0%
Thu Mar 15, 2007	6:00 - 9:00 AM	2747	1.6%
Wed Mar 8, 2006	6:00 - 9:00 AM	2452	1.3%
Tue May 24, 2005	6:00 - 9:00 AM	2448	1.1%
Wed Oct 13, 2004	6:00 - 9:00 AM	2218	2.3%
Thu May 29, 2003	6:00 - 9:00 AM	2449	1.3%
Tue Apr 30, 2002	6:00 - 9:00 AM	1834	3.9%
Thu Sep 20, 2001	6:00 - 9:00 AM	2075	8.1%
Tue Oct 24, 2000	6:00 - 9:00 AM	2480	8.2%
Wed Mar 17, 1999	6:00 - 9:00 AM	2534	9.4%
Tue Mar 17, 1998	6:00 - 9:00 AM	2255	8.2%
Tue Oct 7, 1997	6:00 - 9:00 AM	2111	14.9%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu May 15, 2008	3:00 - 6:00 PM	1479	1.0%
Thu Mar 15, 2007	3:00 - 6:00 PM	1602	0.7%
Thu Sep 21, 2006	3:00 - 6:00 PM	1518	2.0%
Tue Sep 13, 2005	3:00 - 6:00 PM	1318	0.5%
Year 2004	-	-	-
Wed Apr 9, 2003	3:00 - 6:00 PM	1240	1.5%
Tue Jun 11, 2002	3:00 - 6:00 PM	1275	4.4%
Wed Oct 3, 2001	3:00 - 6:00 PM	1177	5.4%
Thu Apr 13, 2000	3:00 - 6:00 PM	1243	1.4%
Thu Mar 4, 1999	3:00 - 6:00 PM	1128	3.2%
Thu Mar 26, 1998	3:00 - 6:00 PM	1210	3.8%
Wed Oct 8, 1997	3:00 - 6:00 PM	1138	6.8%

NOTES:

- (a) Morning period of operation from 5:00 to 10:00 AM.
- (b) Evening period of operation from 3:00 to 6:00 PM.
- (c) Data was not collected in 2004 for off-peak direction

Southbound - A.M.

Route 84 to Route 237 Calaveras Blvd.

Typical data for 2008 (5)

PF	ΔΚ	PER	IOD	(4)
	\neg ı\	1 – 1	IUU	

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	134	3	_	50	0
Buses	5	1	_	1	0
Carpools (1)	2144	77	<u> </u>	727	55
Vanpools	21	1	_	9	0
Hybrid/Single Occ. (2)	206	16097	_	72	5738
Violators	39	_	_	16	
TOTAL	2549	16179		875	5793
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	134	3		50	0
Buses	175	35	_	35	0
Carpools (1)	4460	169	_	1520	122
Vanpools	210	10	_	90	0
Hybrid/Single Occ. (2)	206	16097	_	72	5738
Violators	39	_	_	16	_
TOTAL	5224	16314		1783	5860
RATES					
HOV Lane occupancy rate	2.0	persons/veh	_	2.0	persons/veh
Mixed Flow occupancy rate	1.0	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh	_	1.1	persons/veh
Violation rate ⁽³⁾ - (HOV Lane)	1.5	%	_	1.8	%

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 10/22/08 at Vargas Rd I/C.

Southbound - P.M.

Route 84 to Route 237 Calaveras Blvd.

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	16	5		9	0
Buses	1	9		1	3
Carpools (1)	981	669		338	50
Vanpools	11	21	_	2	3
Hybrid/Single Occ. (2)	16	10258	_	0	3977
Violators	27		_	0	
TOTAL	1052	10962		350	4033
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	16	5		9	0
Buses	35	315	_	35	105
Carpools (1)	2029	1426	_	683	102
Vanpools	110	210	_	20	30
Hybrid/Single Occ. (2)	16	10258	_	0	3977
Violators	27	_	_	0	_
TOTAL	2233	12214		747	4214
RATES			_		
HOV Lane occupancy rate	2.1	persons/veh	_	2.1	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh	_	1.1	persons/veh
Violation rate ^{(3) -} (HOV Lane)	2.6	%	_	0.0	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 12/09/08 at Vargas Rd. I/C.

Route 84 to Route 237 Calaveras Blvd.

Violation History

Southtbound

VIOLATION

Α.	М.	PE	ΑK

DATE	MONITORED	VOLUME	RATE
Wed Oct 22, 2008	6:00 - 9:00 AM	2549	1.5%
Wed Sep 19, 2007	6:00 - 9:00 AM	2454	3.3%
Tue Jun 13, 2006	6:00 - 9:00 AM	2121	3.0%
Tue Oct 4, 2005	6:00 - 9:00 AM	2133	3.6%
Thu Dec 2, 2004	6:00 - 9:00 AM	1970	9.8%
Thu Oct 9, 2003	6:00 - 9:00 AM	2138	0.2%
Thu Dec 5, 2002	6:00 - 9:00 AM	1098	4.4%

PERIOD

TOTAL HOVL

P.M. PEAK

Tue Dec 9, 2008	3:00 - 6:00 PM	1052	2.6%
Tue Jun 5, 2007	3:00 - 6:00 PM	1481	3.5%
Tue Sep 19, 2006	3:00 - 6:00 PM	1669	1.1%
Thu Nov 3, 2005	3:00 - 6:00 PM	1752	1.0%
Year 2004	-	-	-
Tue Jun 3, 2003	3:00 - 6:00 PM	1149	4.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

- (b) Evening period of operation from 3:00 to 7:00 PM.
- (c) Data was not collected in 2004 for off-peak direction

Southbound - A.M.

Marina Boulevard to Whipple Road

Typical data for 2008 (5)

PEA	K P	ERI	OD	(4)
------------	-----	------------	----	-----

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	47	14	_	13	1
Buses	23	4	_	10	1
Carpools (1)	2126	456	_	630	156
Vanpools	26	4	_	13	3
Hybrid/Single Occ. (2)	250	12909	_	67	4538
Violators	67			18	_
TOTAL	2539	13387		751	4699
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	47	14	_	13	1
Buses	805	140	_	350	35
Carpools (1)	4505	982	_	1328	351
Vanpools	260	40	_	130	30
Hybrid/Single Occ. (2)	250	12909	_	67	4538
Violators	67	_	_	18	_
TOTAL	5934	14085		1906	4955
RATES			_		
HOV Lane occupancy rate	2.3	persons/veh	_	2.5	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.3	persons/veh
Violation rate (HOV Lane)	2.6	%	_	2.4	%

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%Total no. of vehicles in HOV lane
- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 04/30/08 at Tennyson Road I/C.

Southbound - P.M.

Marina Boulevard to Whipple Road

Typical data for 2008 (5)

PEAK	PERIOD) (4)
------	--------	--------------

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	92	13	-	35	1
Buses	18	15		4	2
Carpools (1)	2708	581	. =	939	181
Vanpools	26	14	_	9	0
Hybrid/Single Occ. (2)	125	12069		59	4456
Violators	186	_	_	49	_
TOTAL	3155	12692	·	1095	4640
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	92	13	_	35	1
Buses	630	525		140	70
Carpools (1)	5589	1263		1934	385
Vanpools	260	140		90	0
Hybrid/Single Occ. (2)	125	12069		59	4456
Violators	186	_		49	
TOTAL	6882	14010		2307	4912
RATES					
HOV Lane occupancy rate	2.2	persons/veh		2.1	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.3	persons/veh
Violation rate (HOV Lane)	5.9	%	· <u>-</u>	4.5	%

- $(2) \ \ \textit{Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only}.$
- (3) Violation rate = no. of violators in HOV lane x 100%Total no. of vehicles in HOV lane
- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/14/08 at Tennyson Road I/C.

Northbound - A.M.

Whipple Road to South of Route 238

Typical data for 2008 (5)

PEAK PERIOD (4)	
-----------------	--

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	64	6	_	28	1
Buses	18	4	_	6	1
Carpools (1)	2292	299	_	901	95
Vanpools	15	0	_	7	0
Hybrid/Single Occ. (2)	118	11399	_	54	4042
Violators	56	_	_	15	_
TOTAL	2563	11708		1011	4139
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	64	6	_	28	1
Buses	630	140	_	210	35
Carpools (1)	4899	628	_	1936	199
Vanpools	150	0	_	70	0
Hybrid/Single Occ. (2)	118	11399	_	54	4042
Violators	56	_	_	15	_
TOTAL	5917	12173		2313	4277
RATES			_		
HOV Lane occupancy rate	2.3	persons/veh		2.3	persons/veh
Mixed Flow occupancy rate	1.0	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.3	persons/veh
Violation rate (3) (HOV Lane)	2.2	%	_	1.5	%

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 05/07/08 at Tennyson Road I/C.

Northbound - P.M.

Whipple Road to South of Route 238

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	63	7		28	1
Buses	36	10		13	1
Carpools (1)	3228	230		1091	87
Vanpools	15	6		8	3
Hybrid/Single Occ. (2)	121	12710		58	4325
Violators	59		_	7	
TOTAL	3522	12963		1205	4417
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	63	7	- -	28	1
Buses	1260	350		455	35
Carpools (1)	6569	499		2226	188
Vanpools	150	60		80	30
Hybrid/Single Occ. (2)	121	12710		58	4325
Violators	59	_		7	_
TOTAL	8222	13626		2854	4579
RATES					
HOV Lane occupancy rate	2.3	persons/veh	_	2.4	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.3	persons/veh
Violation rate (3) - (HOV Lane)	1.7	%	_	0.6	%

- $(2) \ \ \textit{Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only}.$
- (3) Violation rate = no. of violators in HOV lane x 100%Total no. of vehicles in HOV lane
- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 12/02/08 at Tennyson Road I/C.

Marina Boulevard to Whipple Road

Violation History

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Wed Apr 30, 2008	6:00 - 9:00 AM	2539	2.6%
Thu Mar 22, 2007	6:00 - 9:00 AM	2923	3.9%
Wed Oct 4, 2006	6:00 - 9:00 AM	2361	3.2%
Wed Mar 30, 2005	6:00 - 9:00 AM	2278	2.9%
Wed Nov 3, 2004	6:00 - 9:00 AM	2723	3.6%
Tue Oct 7, 2003	6:00 - 9:00 AM	3049	3.7%
Tue Jun 11, 2002	6:00 - 9:00 AM	3638	7.5%
Wed Mar 21, 2001	6:00 - 9:00 AM	3971	5.2%
Tue May 9, 2000	6:00 - 9:00 AM	3661	4.6%
Thu Mar 4, 1999	6:00 - 9:00 AM	3012	5.7%
Tue Oct 27, 1998	6:00 - 9:00 AM	2958	10.1%
Thu May 8, 1997	6:00 - 9:00 AM	2257	16.0%

PERIOD

TOTAL HOVL

P.M. PEAK

Tue Oct 14, 2008	3:00 - 6:00 PM	3155	5.9%
Thu Oct 11, 2007	3:00 - 6:00 PM	3010	1.8%
Thu Sep 28, 2006	3:00 - 6:00 PM	2494	1.5%
Tue Nov 8, 2005	3:00 - 6:00 PM	3053	2.0%
Wed Dec 1, 2004	3:00 - 6:00 PM	3036	2.6%
Wed Jun 4, 2003	3:00 - 6:00 PM	3708	6.0%
Wed Jun 5, 2002	3:00 - 6:00 PM	3401	5.2%
Thu Apr 26, 2001	3:00 - 6:00 PM	3134	3.9%
Tue May 9, 2000	3:00 - 6:00 PM	2484	5.6%
Tue Mar 2, 1999	3:00 - 6:00 PM	2307	4.3%
Tue Oct 27, 1998	3:00 - 6:00 PM	2218	6.0%
Wed May 7, 1997	3:00 - 7:00 PM	2665	8.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

Whipple Road to South of Route 238

Violation History

Northbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Wed May 7, 2008	6:00 - 9:00 AM	2563	2.2%
Wed Oct 3, 2007	6:00 - 9:00 AM	2485	0.3%
Thu Dec 7, 2006	6:00 - 9:00 AM	2449	2.2%
Thu Oct 6, 2005	6:00 - 9:00 AM	2735	2.0%
Tue Nov 2, 2004	6:00 - 9:00 AM	2954	5.3%
Thu May 22, 2003	6:00 - 9:00 AM	2920	1.4%
Thu Sep 12, 2002	6:00 - 9:00 AM	2560	8.8%
Thu Oct 11, 2001	6:00 - 9:00 AM	2212	5.2%
Tue Nov 7, 2000	6:00 - 9:00 AM	1648	7.6%
Tue Nov 2, 1999	6:00 - 9:00 AM	1845	8.1%
Wed Oct 28, 1998	6:00 - 9:00 AM	1582	17.2%
Wed Oct 8, 1997	6:00 - 9:00 AM	1147	12.7%

P.M. PEAK

Tue Dec 2, 2008	3:00 - 6:00 PM	3522	1.7%
Wed Sep 26, 2007	3:00 - 6:00 PM	3563	1.5%
Tue Oct 24, 2006	3:00 - 6:00 PM	3203	1.1%
Tue Apr 5, 2005	3:00 - 6:00 PM	3780	2.8%
Tue Nov 30, 2004	3:00 - 6:00 PM	3422	1.6%
Thu Oct 9, 2003	3:00 - 6:00 PM	3657	3.0%
Wed May 8, 2002	3:00 - 6:00 PM	3878	8.4%
Wed May 2, 2001	3:00 - 6:00 PM	4069	4.8%
Thu Oct 5, 2000	3:00 - 6:00 PM	4433	6.4%
Tue Nov 2, 1999	3:00 - 6:00 PM	2238	26.5%
Wed Oct 28, 1998	3:00 - 6:00 PM	2515	8.3%
Tue May 6, 1997	3:00 - 7:00 PM	3788	11.1%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

Southbound - A.M.

Whipple Road to Santa Clara County Line

Typical data for 2008 (5)

PE/	٩K	PER	IOD	(4)
-----	----	------------	-----	-----

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	106	5		45	2
Buses	19	26	_	7	6
Carpools (1)	2222	129		841	70
Vanpools	31	0		9	0
Hybrid/Single Occ. (2)	156	12172		62	4260
Violators	4	_		0	_
TOTAL	2538	12332		964	4338
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	106	5		45	2
Buses	665	910		245	210
Carpools (1)	4609	271		1793	149
Vanpools	310	0		90	0
Hybrid/Single Occ. (2)	156	12172		62	4260
Violators	4	_		0	
TOTAL	5850	13358		2235	4621
RATES					
HOV Lane occupancy rate	2.3	persons/veh		2.3	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh		1.3	persons/veh
Violation rate ⁽³⁾ - (HOV Lane)	0.2	%	_	0.0	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 10/08/08 at Mowry I/C.

Southbound - P.M.

Whipple Road to Santa Clara County Line

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	78	20	_	29	8
Buses	6	12	_	3	3
Carpools (1)	2039	725	_	722	221
Vanpools	15	6	_	10	2
Hybrid/Single Occ. (2)	99	12627	_	40	4392
Violators	46	_		5	_
TOTAL	2283	13390		809	4626
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	78	20	_	29	8
Buses	210	420	_	105	105
Carpools (1)	4251	1533		1513	460
Vanpools	150	60		100	20
Hybrid/Single Occ. (2)	99	12627	_	40	4392
Violators	46	_		5	_
TOTAL	4834	14660		1792	4985
RATES					
HOV Lane occupancy rate	2.1	persons/veh	_	2.2	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh	_	1.2	persons/veh
Violation rate (3) - (HOV Lane)	2.0	%	_	0.6	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/07/08 at Mowry I/C.

Northbound - A.M.

Santa Clara County Line to Whipple Road

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	47	4		11	1
Buses	8	14		2	3
Carpools (1)	942	367		362	133
Vanpools	11	8		5	7
Hybrid/Single Occ. (2)	58	10744	_	30	3911
Violators	20			2	_
TOTAL	1086	11137		412	4055
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	47	4		11	1
Buses	280	490	. <u> </u>	70	105
Carpools (1)	1940	775		748	286
Vanpools	110	80		50	70
Hybrid/Single Occ. (2)	58	10744	_	30	3911
Violators	20	_	_	2	_
TOTAL	2455	12093		911	4373
RATES					
HOV Lane occupancy rate	2.3	persons/veh	_	2.2	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh	_	1.2	persons/veh
Violation rate (HOV Lane)	1.8	%		0.5	%

NOTES: 1) Two or more persons per vehicle.

- $(2) \ \ \textit{Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only}.$
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 04/16/08 at Mowry I/C.

Northbound - P.M.

Santa Clara County Line to Whipple Road

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	95	11	_	30	0
Buses	6	21	_	2	2
Carpools (1)	2337	515	_	902	43
Vanpools	9	4	_	1	0
Hybrid/Single Occ. (2)	89	13373	_	13	4771
Violators	15		_	1	_
TOTAL	2551	13924		949	4816
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	95	11	_	30	0
Buses	210	735	_	70	70
Carpools (1)	4864	1073	_	1823	88
Vanpools	90	40	_	10	0
Hybrid/Single Occ. (2)	89	13373	_	13	4771
Violators	15		_	1	
TOTAL	5363	15232		1947	4929
RATES			_		
HOV Lane occupancy rate	2.1	persons/veh	_	2.1	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.0	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh		1.2	persons/veh
Violation rate (3) (HOV Lane)	0.6	%	_	0.1	%

NOTES: 1) Two or more persons per vehicle.

- $(2) \ \ \textit{Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only}.$
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 11/19/08 at Mowry I/C.

Violation History

Whipple Road to Santa Clara County Line

Southbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Wed Oct 8, 2008	6:00 - 9:00 AM	2538	0.2%
Wed Nov 14, 2007	6:00 - 9:00 AM	2736	3.5%
Tue Dec 5, 2006	6:00 - 9:00 AM	2509	12.0%
Wed Oct 26, 2005	6:00 - 9:00 AM	1948	3.0%
Tue Nov 9, 2004	6:00 - 9:00 AM	2355	2.7%
Tue Jun 3, 2003	6:00 - 9:00 AM	2418	3.5%
Tue Sep 24, 2002	6:00 - 9:00 AM	2525	3.2%
Tue Mar 27, 2001	6:00 - 9:00 AM	3423	4.8%
Tue Mar 28, 2000	6:00 - 9:00 AM	2438	6.2%
Wed May 19, 1999	6:00 - 9:00 AM	2118	3.7%

P.M. PEAK

Tue Oct 7, 2008	3:00 - 6:00 PM	2283	2.0%
Wed May 16, 2007	3:00 - 6:00 PM	2567	2.1%
Wed Nov 8, 2006	3:00 - 6:00 PM	2669	0.7%
Wed Nov 9, 2005	3:00 - 6:00 PM	2539	1.7%
Tue Dec 14, 2004	3:00 - 6:00 PM	2639	6.8%
Wed May 7, 2003	3:00 - 6:00 PM	2227	4.2%
Tue May 7, 2002	3:00 - 6:00 PM	2114	5.8%
Wed Oct 17, 2001	3:00 - 6:00 PM	2157	3.8%
Thu Nov 9, 2000	3:00 - 6:00 PM	2060	5.9%
Tue Mar 9, 1999	3:00 - 6:00 PM	1966	20.7%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

Violation History

Santa Clara County Line to Whipple Road

Northbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Wed Apr 16, 2008	6:00 - 9:00 AM	1086	1.8%
Thu Apr 12, 2007	6:00 - 9:00 AM	1218	0.9%
Wed Nov 15, 2006	6:00 - 9:00 AM	1383	0.7%
Thu Apr 14, 2005	6:00 - 9:00 AM	1327	4.7%
Thu Nov 4, 2004	6:00 - 9:00 AM	1160	3.8%
Wed Oct 15, 2003	6:00 - 9:00 AM	1413	2.5%
Tue Apr 16, 2002	6:00 - 9:00 AM	925	2.9%
Thu Nov 1, 2001	6:00 - 9:00 AM	856	9.7%
Wed Mar 29, 2000	6:00 - 9:00 AM	956	5.6%
Wed Mar 10, 1999	6:00 - 9:00 AM	833	13.2%

P.M. PEAK

Wed Nov 19, 2008	3:00 - 6:00 PM	2551	0.6%
Thu Oct 18, 2007	3:00 - 6:00 PM	2702	2.3%
Tue Nov 7, 2006	3:00 - 6:00 PM	2054	1.0%
Tue Oct 18, 2005	3:00 - 6:00 PM	2695	3.7%
Tue Nov 23, 2004	3:00 - 6:00 PM	2150	0.2%
Wed Oct 15, 2003	3:00 - 6:00 PM	2366	3.1%
Wed May 15, 2002	3:00 - 6:00 PM	2663	6.0%
Thu Jun 7, 2001	3:00 - 6:00 PM	2755	3.9%
Wed Nov 1, 2000	3:00 - 6:00 PM	3263	3.6%
Thu Mar 18, 1999	3:00 - 6:00 PM	2657	4.6%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

Northbound - A.M.

16th Street to SFOBB Toll Plaza

Typical data for 2008

(5)

PEAK PERIOD
6:00 - 10:00 AM
Mixed Flour

PEAK HOUR

6:00 - 7:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	86	0	18	0
Buses	40	21	15	3
Carpools (1)	1539	38	379	31
Hybrid	110	6	12	2
Vanpools	25	0	5	0
1 and 2 Occ. ⁽²⁾	_	3619		1074
Violators	125	_	41	_
TOTAL	1925	3684	470	1110

PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	86	0	_	34	2
Buses	1400	735		525	105
Carpools (1)	4611	76	_	409	62
Hybrid	110	6	_	12	2
Vanpools	250	0		50	0
1 and 2 Occ. (2)	_	4194		_	1206
Violators	179		_	57	
TOTAL	6636	5011	_	1087	1377

RATES

HOV Lane occupancy rate	3.4 persons/veh	2.3 persons/veh
Mixed Flow occupancy rate	1.4 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	2.1 persons/veh	1.6 persons/veh
Violation rate (3) (HOV Lane)	6.5 %	8.7 %

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

- (2) Mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%Total no. of vehicles in HOV lane
- (4) HOV lane in operation from 5:00 to 10:00 A.M.
- (5) Observations conducted 5/21/08 north of 7th Street Interchange.

Violation History

16th Street to SFOBB Toll Plaza

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Wed May 21, 2008	6:00 - 10:00 AM	1745	6.5%
Thu Mar 15, 2007	7:00 - 10:00 AM	1875	12.6%
Wed May 10, 2006	6:00 - 10:00 AM	1763	8.5%
Wed Mar 16, 2005	6:00 - 10:00 AM	1483	10.5%
Thu Oct 28, 2004	7:00 - 10:00 AM	1647	15.5%
Wed May 21, 2003	5:00 - 10:00 AM	1451	5.6%
Wed Apr 17, 2002	6:00 - 10:00 AM	1613	4.8%
Thu Mar 22, 2001	6:00 - 10:00 AM	2402	15.5%
Wed Sep 27, 2000	7:00 - 10:00 AM	2983	16.4%
Tue May 18, 1999	6:00 - 10:00 AM	3471	3.1%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Tue May 20, 2003	3:00 - 7:00 PM	457	3.5%
Wed Apr 17, 2002	3:00 - 7:00 PM	486	6.8%
Thu Oct 11, 2001	3:00 - 7:00 PM	397	14.6%
Wed Oct 18, 2000	3:00 - 7:00 PM	513	43.3%
Thu Sep 30, 1999	3:00 - 7:00 PM	587	16.5%

- **NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 off-peak direction

Westbound - A.M.

Loveridge Road to Port Chicago Highway

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

6:00 - 9:00 AM

6:00 - 7:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	182	13		86	8
Buses	2	13	_	0	3
Carpools (1)	2555	509		879	128
Vanpools	16	6	_	6	2
Hybrid/Single Occ. (2)	66	12799		14	5067
Violators	614	_		195	_
TOTAL	3435	13340		1180	5208
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	182	13		86	8
Buses	70	455		0	105
Carpools (1)	5471	1107		1891	270
Vanpools	160	60		60	20
Hybrid/Single Occ. (2)	66	12799		14	5067
Violators	614	_		195	
TOTAL	6563	14434		2246	5470
RATES			_		
HOV Lane occupancy rate	1.9	persons/veh		1.9	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.2	persons/veh
Violation rate ⁽³⁾ - (HOV Lane)	17.9	%	_	16.5	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 6:00 to 9:00 A.M.
- (5) Observations conducted 05/29/08 at Bailey Road I/C.

Eastbound - P.M.

Port Chicago Highway to Railroad Avenue

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	160	45	62	19
Buses	5	28	2	7
Carpools (1)	2448	1543	824	517
Vanpools	19	42	5	13
Hybrid/Single Occ. (2)	70	15924	33	5484
Violators	92		25	
TOTAL	2794	17582	951	6040

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	160	45	62	19
Buses	175	980	70	245
Carpools ⁽¹⁾	5039	3353	1696	1118
Vanpools	190	420	50	130
Hybrid/Single Occ. (2)	70	15924	33	5484
Violators	92	_	25	_
TOTAL	5726	20722	1936	6996

RATES

HOV Lane	0.0	
occupancy rate	2.0 persons/veh	2.0 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	3.3 %	2.6 %

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 05/06/08 at San Marcos I/C.

Violation History

Loveridge Road to Port Chicago Highway

Westbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Thu May 29, 2008	6:00 - 9:00 AM	3435	17.9%
Thu Apr 19, 2007	6:00 - 9:00 AM	3246	7.9%
Thu Sep 7, 2006	6:00 - 9:00 AM	2437	3.0%
Tue Jun 7, 2005	6:00 - 9:00 AM	2634	3.3%
Thu Oct 21, 2004	6:00 - 9:00 AM	2436	2.0%
Thu Oct 16, 2003	6:00 - 9:00 AM	2657	3.6%
Thu May 23, 2002	6:00 - 9:00 AM	2225	4.5%
Wed Sep 19, 2001	6:00 - 9:00 AM	1174	7.0%
Wed May 10, 2000	6:00 - 9:00 AM	861	5.6%

NOTES:

(a) Morning period of operation from 6:00 to 9:00 AM.

Violation History

Port Chicago Highway to Railroad Ave.

Eastbound

VIOLATION

P.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue May 6, 2008	3:00 - 6:00 PM	2794	3.3%
Tue Apr 17, 2007	3:00 - 6:00 PM	2964	2.5%
Wed Sep 6, 2006	3:00 - 6:00 PM	2942	1.7%
Thu Oct 20, 2005	3:00 - 6:00 PM	2524	3.8%
Tue Dec 7, 2004	3:00 - 6:00 PM	2289	1.7%
Wed May 14, 2003	3:00 - 6:00 PM	2292	1.9%
Tue Mar 19, 2002	3:00 - 6:00 PM	2248	4.4%
Tue Oct 30, 2001	3:00 - 6:00 PM	2011	4.0%

PERIOD

TOTAL HOVL

NOTES:

(a) Evening period of operation from 3:00 to 7:00 PM.

Westbound - A.M.

Solano County Line to Route 4

Typical data for 2008 (5)

		PERIOD (4) 0:00 AM		PEAK HOUR 6:00 - 7:00 AM	
VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	99	41	-	41	8
Buses	32	31		11	11
Carpools ⁽¹⁾	1644	581	_	772	90
Hybrid	211	23	_	60	10
Vanpools	36	16		29	9
1 and 2 Occ. ⁽²⁾	_	12825		_	3942
Violators	222	_		26	_
TOTAL	2244	13517	_	939	4070
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	99	41	_	41	8
Buses	1120	1085	_	385	385
Carpools (1)	4772	1446	_	2222	261
	211	23	_	60	10
Vanpools	360	160	_	290	90
1 and 2 Occ. ⁽²⁾		13796	_	_	4111
Violators	277		_	29	
TOTAL	6839	16551		3027	4865
RATES			_		
HOV Lane occupancy rate	3.0	persons/veh	_	3.2	persons/veh
Mixed Flow occupancy rate	1.2 persons/veh		_	1.2	persons/veh
Overall occupancy (incl. buses)	1.5	persons/veh		1.6	persons/veh
Violation rate (3) (HOV Lane)	9.9	%	_	2.8	%

- **NOTES:** (1) 3 or more persons per vehicle & 2 seater vehicles with 2 persons.
 - (2) Mixed flow lanes only.
 - (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 5:00 to 10:00 A.M.
- $(5) \quad Observations \ conducted \ 11/6/08 \ east \ of \ Cummings \ Skyway \ Interchange.$

Violation History

Solano County Line to Route 4

Westbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Thu Nov 6, 2008	6:00 - 10:00 AM	2244	9.9%
P.M. PEAK	Year 2008	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 10:00 AM.

- $(b) \ \ \textit{Evening period of operation from 3:00 to 7:00 PM}.$
- (c) Data was not collected in 2008 for off-peak direction

Vanpools

1 and 2 Occ. (2)

Violators

TOTAL

Westbound - A.M.

Route 4 to Alameda County Line

Typical data for 2008 (5)

P	FΔ	K	PF	RI	0	n	(4)
			_		v	_	

PEAK HOUR

6:00 - 10:00 AM

6:00 - 7:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	142	28		56	5
Buses	114	33		40	6
Carpools (1)	2566	207		1130	29
Hybrid	286	6	-	79	0
Vanpools	63	18	-	44	5
1 and 2 Occ. (2)	_	17977	-	_	4851
Violators	368	_	_	106	_
TOTAL	3539	18269	•	1455	4896
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	142	28	•	56	5
Buses	3990	1155	-	1400	210
Carpools (1)	7445	571	-	3243	75
	286	6	-	79	0

RATES

HOV Lane occupancy rate	3.7 persons/veh	3.7 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.6 persons/veh	1.7 persons/veh
Violation rate (3) (HOV Lane)	10.4 %	7.3 %
(1.5 v Lane)		

180

19355

21295

440

155

5373

50

5166

5506

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

(2) Mixed flow lanes only.

630

480

12973

(3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 10:00 A.M.
- (5) Observations conducted 5/22/08 east of Hilltop Drive Interchange.

Eastbound - P.M.

Alameda County Line to Route 4

Typical data for 2008 (5)

		PERIOD (4)		AK HOUR 00 - 6:00 PM	
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lar	Mixed Flow ne Lanes	
Motorcycles	222	53	81	6	
Buses	114	30	37	4	
Carpools (1)	3421	395	1085	126	
Hybrid	254	41	83	11	
Vanpools	203	59	41	13	
1 and 2 Occ. ⁽²⁾	_	18181	_	4732	
Violators	109	_	16		
TOTAL	4323	18759	1343	4892	
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lar	Mixed Flow ne Lanes	
Motorcycles	222	53	81	6	
Buses	3990	1050	1295	140	
Carpools (1)	9827	1065	3155	338	
Hybrid	254	41	83	11	
Vanpools	2030	590	410	130	
1 and 2 Occ. ⁽²⁾	_	19916		5211	
Violators	140		24		
TOTAL	16463	22715	5048	5836	
RATES					
HOV Lane occupancy rate	3.8	persons/veh		3.8 persons/veh	
Mixed Flow occupancy rate	1.2	persons/veh		1.2 persons/veh	
Overall occupancy (incl. buses)	1.7	persons/veh		1.7 persons/veh	
Violation rate (3) (HOV Lane)	2.5	%		1.2 %	

- **NOTES:** (1) 3 or more persons per vehicle & 2 seater vehicles with 2 persons.
 - (2) Mixed flow lanes only.
 - (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/9/08 east of Hilltop Drive Interchange.

Violation History

Route 4 to Alameda County Line

Westbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu May 22, 2008	6:00 - 10:00 AM	3539	10.4%
Thu Oct 18, 2007	7:00 - 10:00 AM	2787	10.6%
Wed May 24, 2006	6:00 - 10:00 AM	4095	10.9%
Thu Nov 10, 2005	7:00 - 10:00 AM	2635	12.5%
Tue Nov 9, 2004	7:00 - 10:00 AM	2507	9.2%
Fri May 9, 2003	6:00 - 10:00 AM	4509	27.2%
Tue Apr 16, 2002	7:00 - 10:00 AM	2656	6.4%
Tue Mar 27, 2001	6:00 - 10:00 AM	3640	8.7%
Tue Oct 3, 2000	7:00 - 10:00 AM	2643	9.5%
Tue Nov 9, 1999	7:00 - 10:00 AM	2186	11.1%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Tue May 7, 2002	3:00 - 7:00 PM	1401	25.7%
Thu Oct 4, 2001	3:00 - 7:00 PM	1432	24.2%
Thu Apr 13, 2000	3:00 - 7:00 PM	1167	37.3%
Wed Apr 21, 1999	3:00 - 7:00 PM	1068	18.5%

- **NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Violation History

Alameda County Line to Route 4

Eastbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Tue Apr 23, 2002	6:00 - 10:00 AM	632	19.8%
Tue May 15, 2001	6:00 - 10:00 AM	553	18.3%
Thu Dec 14, 2000	7:00 - 10:00 AM	483	26.3%
Wed Apr 7, 1999	7:00 - 10:00 AM	498	26.9%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu Oct 9, 2008	3:00 - 7:00 PM	4323	2.5%
Tue Apr 24, 2007	3:00 - 7:00 PM	3653	2.0%
Tue May 2, 2006	3:00 - 7:00 PM	4580	6.7%
Tue Apr 19, 2005	3:00 - 7:00 PM	3897	6.4%
Thu Oct 21, 2004	3:00 - 6:00 PM	3214	9.3%
Wed May 28, 2003	3:00 - 7:00 PM	4256	11.5%
Tue Apr 16, 2002	3:00 - 7:00 PM	3921	9.0%
Thu Sep 20, 2001	3:00 - 7:00 PM	4649	4.4%
Tue Sep 26, 2000	3:00 - 7:00 PM	3780	18.0%
Tue Apr 13, 1999	3:00 - 7:00 PM	2956	9.5%

- **NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 off-peak direction

Northbound - A.M.

N/O Marina Vista I/C to Benicia Bridge Toll Plaza

Typical data for 2008 (5)

	PEAK PERIOD (4) 6:00 - 9:00 AM			PEAK HOUR 8:00 - 9:00 AM		
VEHICLES	HOV Lane	Mixed Flow Lanes	Н	OV Lane	Mixed Flow Lanes	
Motorcycles	25	1		6	1	
Buses	6	10		6	3	
Carpools ⁽¹⁾	238	6		80	3	
Vanpools	19	1		5	1	
Two Occ. (2)	12	283		5	138	
Hybrid / Single Occ. (2)	32	6893		9	2462	
Violators	12			5		
TOTAL	332	7194		111	2608	
PERSONS	HOV Lane	Mixed Flow Lanes	Н	OV Lane	Mixed Flow Lanes	
Motorcycles	25	1		6	1	
Buses	210	350		210	105	
Carpools ⁽¹⁾	714	18		240	9	
Vanpools	190	10		50	10	
Two Occ.	24	566		10	276	
Hybrid / Single Occ. (2)	32	6893		9	2462	
Violators	25			11		
TOTAL	1195	7838		525	2863	
RATES						
HOV Lane occupancy rate	3.6 persons/veh			4.7 persons/veh		
Mixed Flow occupancy rate	1.1 persons/veh 1.1 pe		persons/veh			
Overall occupancy (incl. buses)	1.2	persons/veh		1.2 persons/veh		
Violation rate ^{(3) -} (HOV Lane)	3.6 %			4.5	%	

NOTES: 1) Three or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 10:00 A.M.
- (5) Observations conducted 10/28/08 at Benicia Bridge Toll Plaza.

Northbound - P.M.

N/O Marina Vista I/C to Benicia Bridge Toll Plaza

Typical data for 2008 (5)

PEAK PERIOD (4) 3:00 - 6:00 PM

PEAK HOUR

4:00 - 5:00 PM

	3.00 - 0.00 FW			4.00 - 3.00 FW		
VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes	
Motorcycles	54	10		30	5	
Buses	4	13		0	4	
Carpools (1)	604	36		206	12	
Vanpools	24	5	_	13	0	
Two Occ. (2)	98	816	_	38	346	
Hybrid / Single Occ. (2)	33	10930	_	18	3859	
Violators	99	_		38		
TOTAL	817	11810	-	305	4226	
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes	
Motorcycles	54	10		30	5	
Buses	140	455	_	0	140	
Carpools (1)	1812	108	_	618	36	
Vanpools	240	50	_	130	0	
Two Occ.	196	1632	_	76	692	
Hybrid / Single Occ. (2)	33	10930	_	18	3859	
Violators	205	_		77		
TOTAL	2475	13185		872	4732	
RATES						
HOV Lane occupancy rate	.5 U persons/ven		2.9	2.9 persons/veh		
Mixed Flow occupancy rate	I I persons/ven I I		persons/veh			
Overall occupancy (incl. buses)	1.2	persons/veh		1.2	persons/veh	
Violation rate (3) (HOV Lane)	12.1	%		12.5	%	

NOTES: 1) Three or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

: 6 3.00 · 7.00 P.M

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 12//10/08 at Benicia Bridge Toll Plaza.

Violation History

N/O Marina Vista I/C to Benicia Bridge Toll Plaza

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Tue Oct 28, 2008	6:00 - 9:00 AM	332	3.6%
	Thu Sep 6, 2007	6:00 - 9:00 AM	345	3.5%
P.M. PEAK	Wed Dec 10, 2008	3:00 - 6:00 PM	817	12.1%
	Wed Sep 5, 2007	3:00 - 6:00 PM	870	7.8%

NOTES:

- (a) Morning period of operation from 5:00 to 10:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

Southbound - A.M.

Marina Vista I/C to N/O North Main St.

Typical data for 2008 (5)

PF	ΛI	/ D		10	(4)
	4		-		٠,

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	81	45	_	26	10
Buses	18	71		9	13
Carpools (1)	2361	675		850	343
Vanpools	2	12		2	2
Hybrid/Single Occ. (2)	89	20870		40	6885
Violators	47	_	_	10	_
TOTAL	2598	21673		937	7253
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	81	27		26	10
Buses	630	1330		315	455
Carpools (1)	4747	1493		1713	758
Vanpools	20	120		20	20
Hybrid/Single Occ. (2)	89	20870	_	40	6885
Violators	47	_	-	10	_
TOTAL	5614	23840		2124	8128
RATES					
HOV Lane occupancy rate	2.2	persons/veh	_	2.3	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh	_	1.3	persons/veh
Violation rate (3) - (HOV Lane)	1.8	%	- -	1.1	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 6:00 to 9:00 A.M.
- (5) Observations conducted 11/13/08 at Truck Scale.

Southbound - P.M.

Marina Vista I/C to N/O North Main St.

Typical data for 2008 (5)

DF	ΛK	PER		(4)
\mathbf{F}	A N		w	

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	56	26	_	19	2
Buses	4	16	_	2	7
Carpools (1)	1210	602	_	403	36
Vanpools	9	3	_	3	0
Hybrid/Single Occ. (2)	31	14404	_	3	5038
Violators	15	_	_	0	_
TOTAL	1325	15051		430	5083
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	56	26	_	19	2
Buses	140	560	_	70	245
Carpools (1)	2540	1291	_	831	81
Vanpools	90	20	_	30	0
Hybrid/Single Occ. (2)	31	14404	_	3	5038
Violators	15	_		0	_
TOTAL	2872	16301		953	5366
RATES					
HOV Lane occupancy rate	2.2	persons/veh	_	2.2	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh		1.1	persons/veh
Violation rate (HOV Lane)	1.1	%	_	0.0	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 11/12/08 at Truck Scale.

Violation History

Marina Vista I/C. to N/O North Main St

Southtbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Thu Nov 13, 2008	6:00 - 9:00 AM	2598	1.8%
Wed Mar 28, 2007	6:00 - 9:00 AM	2959	1.5%
Wed Oct 11, 2006	6:00 - 9:00 AM	2727	1.0%
Tue May 3, 2005	6:00 - 9:00 AM	2387	0.9%
Wed Oct 6, 2004	6:00 - 9:00 AM	2068	2.0%

P.M. PEAK

Wed Nov 12, 2008	3:00 - 6:00 PM	1325	1.1%
Wed Mar 28, 2007	3:00 - 6:00 PM	1378	1.5%
Wed Oct 25, 2006	3:00 - 6:00 PM	1270	1.4%
Tue Sep 27, 2005	3:00 - 6:00 PM	1095	2.1%
Tue Oct 5, 2004	3:00 - 6:00 PM	1083	4.2%

NOTES:

- (a) Morning period of operation from 6:00 to 9:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

Northbound - A.M.

Route 242 to Marina Vista I/C

Typical data for 2008 (5)

DE	۸k	PFR	(4)
\mathbf{r}	Δ	PFR	

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	30	6	_	14	0
Buses	6	8		3	2
Carpools (1)	619	246	_	196	98
Vanpools	3	14	_	0	4
Hybrid/Single Occ. (2)	31	6766	_	25	2475
Violators	9		_	8	_
TOTAL	698	7040		246	2579
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	30	6	_	14	0
Buses	210	280	_	105	70
Carpools (1)	1305	570	_	436	230
Vanpools	30	140	_	0	40
Hybrid/Single Occ. (2)	31	6766	_	25	2475
Violators	9			8	
TOTAL	1615	7762		588	2815
RATES			_		
HOV Lane occupancy rate	2.3	persons/veh	_	2.4	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.2	persons/veh		1.2	persons/veh
Violation rate (3) (HOV Lane)	1.3	%	_	3.3	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 6:00 to 9:00 A.M.
- (5) Observations conducted 11/12/08 at Pacheco Boulevard.

Northbound - P.M.

Route 242 to Marina Vista I/C

Typical data for 2008 (5)

DE	۸ I/	PFR		(4)
$\mathbf{P}\mathbf{F}$	ΔΚ	PFK	I()I)	(')

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	77	16	_	31	3
Buses	11	7		5	4
Carpools (1)	1478	537		508	184
Vanpools	22	6		9	1
Hybrid/Single Occ. (2)	73	9772		27	3435
Violators	40		_	10	_
TOTAL	1701	10338		590	3627
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	77	16	_	31	3
Buses	385	245		175	140
Carpools (1)	3053	1149		1062	390
Vanpools	220	60		90	10
Hybrid/Single Occ. (2)	73	9772	_	27	3435
Violators	40	_	-	10	_
TOTAL	3848	11242		1395	3978
RATES					
HOV Lane occupancy rate	2.3	persons/veh	_	2.4	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh	_	1.3	persons/veh
Violation rate (3) - (HOV Lane)	2.4	%	- -	1.7	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in oper Total no. of vehicles in HOV lane
- (5) Observations conducted 11/13/08 at Pacheco Boulevard.

Violation History

Route 242 to Marina Vista I/C.

Northtbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Wed Nov 12, 2008	6:00 - 9:00 AM	698	1.3%
Wed Sep 5, 2007	6:00 - 9:00 AM	479	5.8%
Wed Apr 26, 2006	6:00 - 9:00 AM	511	13.7%
Thu Sep 22, 2005	6:00 - 9:00 AM	560	5.5%

TOTAL HOVE

PERIOD

P.M. PEAK

Thu Nov 13, 2008	3:00 - 6:00 PM	1701	2.4%
Tue Oct 30, 2007	3:00 - 6:00 PM	1636	7.3%
Thu Oct 26, 2006	3:00 - 6:00 PM	1732	2.3%
Thu Oct 6, 2005	3:00 - 6:00 PM	1910	8.8%

NOTES:

- (a) Morning period of operation from 6:00 to 9:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

Southbound - A.M.

Livorna Road to Alcosta Boulevard

Typical data for 2008 (5)

DF	ΛK	PER		(4)
\mathbf{F}	A N		w	

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	H	OV Lane	Mixed Flow Lanes
Motorcycles	33	2		14	1
Buses	35	19		22	6
Carpools (1)	2188	246		769	110
Vanpools	8	2		5	1
Hybrid/Single Occ. (2)	105	13870		32	4903
Violators	15	_		3	_
TOTAL	2384	14139		845	5021
PERSONS	HOV Lane	Mixed Flow Lanes	H	OV Lane	Mixed Flow Lanes
Motorcycles	33	2		14	1
Buses	1225	665		770	210
Carpools (1)	4427	550		1559	241
Vanpools	80	20		50	10
Hybrid/Single Occ. (2)	105	13870		32	4903
Violators	15	_		3	
TOTAL	5885	15107		2428	5365
RATES					
HOV Lane occupancy rate	2.5	persons/veh		2.9	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh		1.3	persons/veh
Violation rate (3) - (HOV Lane)	0.6	%		0.4	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 6:00 to 9:00 A.M.
- (5) Observations conducted 12/09/08 at Stone Valley Road.

Southbound - P.M.

Livorna Road to Alcosta Boulevard

Typical data for 2008 (5)

PEAK HOUR

3:00 - 6:00 PM		4:00 - 5:00 PM		
HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed F Lane	

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	0	4	0	1
Buses	0	22	0	11
Carpools (1)	2205	715	761	245
Vanpools	0	0	0	0
Hybrid/Single Occ. (2)	53	14130	29	4884
Violators	19		1	
TOTAL	2277	14871	791	5141

PEAK PERIOD (4)

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	0	4	0	1
Buses	0	770	0	385
Carpools ⁽¹⁾ _	4534	1472	1574	499
Vanpools	0	0	0	0
Hybrid/Single Occ. (2)	53	14130	29	4884
Violators	19	_	1	_
TOTAL	4606	16376	1604	5769

RATES

_		
HOV Lane occupancy rate	2.0 persons/veh	2.0 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate (HOV Lane)	0.8 %	0.1 %

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane
- (4) HOV lane in oper Total no. of vehicles in HOV lane
- (5) Observations conducted 11/05/08 at Stone Valley Road.

Northbound - A.M.

Alcosta Boulevard to Livorna Road

Typical data for 2008 (5)

1.0 persons/veh

1.3 persons/veh

0.1 %

PF	ΔK	PF	RI	OD	(4)

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV	'Lane	Mixed Flow Lanes
Motorcycles	30	6	1	12	1
Buses _	27	16		6	3
Carpools ⁽¹⁾ _	1481	199	6	23	98
Vanpools _	16	2		7	0
Hybrid/Single Occ. (2)	95	11617		13	4629
Violators	7			1	_
TOTAL	1656	11840	6	92	4731
PERSONS	HOV Lane	Mixed Flow Lanes	HOV	' Lane	Mixed Flow Lanes
Motorcycles	30	6	1	12	1
Buses	945	560	2	10	105
Carpools ⁽¹⁾	3389	429	14	197	213
Vanpools	160	20	7	70	0
Hybrid/Single Occ. (2)	95	11617		13	4629
Violators	7	_		1	_
TOTAL	4626	12632	18	333	4948
RATES					
HOV Lane occupancy rate	2.8	persons/veh		2.6	persons/veh

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%

 Total no. of vehicles in HOV lane

Total no. of venicles in 110 v ia

(4) HOV lane in operation from 6:00 to 9:00 A.M.

1.1 persons/veh

1.3 persons/veh

0.4 %

(5) Observations conducted 04/09/08 at Stone Valley Road.

Mixed Flow

(incl. buses)
Violation rate (3)

(HOV Lane)

occupancy rate

Overall occupancy

Northbound - P.M.

Alcosta Boulevard to Livorna Road

Typical data for 2008 (5)

PEAK HOUR

3:00 - 6:00 PM

3:00 - 4:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV I	_ane	Mixed Flow Lanes
Motorcycles	64	2	16	3	1
Buses	25	9	3		5
Carpools (1)	3459	602	107	' 8	298
Vanpools	49	2	7		0
Hybrid/Single Occ. (2)	64	13250	19)	4609
Violators	39	_	30)	_
TOTAL	3700	13865	115	53	4913
PERSONS	HOV Lane	Mixed Flow Lanes	HOV L	_ane	Mixed Flow Lanes
Motorcycles	64	2	16		1
Buses	875	315	10	5	175
Carpools (1)	7084	1282	218	30	633
Vanpools	490	20	70)	0
Hybrid/Single Occ. (2)	64	13250	19)	4609
Violators	39		30)	_
TOTAL	8616	14869	242	20	5418
RATES					
HOV Lane occupancy rate	2.3	persons/veh		2.1	persons/veh
Mixed Flow occupancy rate	1.1	persons/veh		1.1	persons/veh
Overall occupancy (incl. buses)	1.3	persons/veh		1.3	persons/veh
Violation rate (HOV Lane)	1.1	%		2.6 %	%

NOTES: 1) Two or more persons per vehicle.

- (2) Hybrid HOV lane only/Single and two Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%Total no. of vehicles in HOV lane
- (4) HOV lane in operation from 3:00 to 6:00 P.M.
- (5) Observations conducted 05/20/08 at Stone Valley Road.

(HOV Lane)

Violation History

Livorna Road to Alcosta Boulevard

Southbound

VIOLATION

	R.A	DE	A 1/
А.	IVI.	PE	ΗN

DATE	MONITORED	VOLUME	RATE
Tue Dec 9, 2008	6:00 - 9:00 AM	2384	0.6%
Thu Oct 4, 2007	6:00 - 9:00 AM	2838	2.2%
Thu Jun 8, 2006	6:00 - 9:00 AM	3047	7.6%
Wed Nov 16, 2005	6:00 - 9:00 AM	2793	4.4%
Tue Oct 5, 2004	6:00 - 9:00 AM	2118	4.5%
Thu Apr 3, 2003	6:00 - 9:00 AM	2114	0.6%
Thu Jun 13, 2002	6:00 - 9:00 AM	2480	1.7%
Thu Mar 15, 2001	6:00 - 9:00 AM	2609	5.3%
Thu Apr 6, 2000	6:00 - 9:00 AM	2258	2.8%
Wed Sep 29, 1999	6:00 - 9:00 AM	1974	3.1%
Tues Mar 10, 1998	6:00 - 9:00 AM	1545	9.0%
Wed Oct 29, 1997	6:00 - 9:00 AM	1791	3.9%

PERIOD

TOTAL HOVL

P.M. PEAK

Wed Nov 5, 2008	3:00 - 6:00 PM	2277	0.8%
Thu Oct 25, 2007	3:00 - 6:00 PM	2889	3.4%
Wed Sep 20, 2006	3:00 - 6:00 PM	3143	1.3%
Tue Nov 15, 2005	3:00 - 6:00 PM	2640	3.0%
Thu Oct 28, 2004	3:00 - 6:00 PM	2527	2.6%
Tue Apr 8, 2003	3:00 - 6:00 PM	2109	2.4%
Wed Mar 13, 2002	3:00 - 6:00 PM	2009	7.8%
Wed May 9, 2001	3:00 - 6:00 PM	1831	8.5%
Tue Dec 12, 2000	3:00 - 6:00 PM	1337	4.3%
Wed Sep 29, 1999	3:00 - 6:00 PM	1604	7.2%
Tue Sep 22, 1998	3:00 - 6:00 PM	2004	8.4%
Thu Apr 17, 1997	3:00 - 6:00 PM	1344	2.0%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 6:00 PM.

Violation History

Alcosta Boulevard to Livorna Road

Northbound

VIOLATION

_			_		_	
Λ	NЛ		D		Λ	ĸ
~ -	IVI	_	_	_	—	r

DATE	MONITORED	VOLUME	RATE
Wed Apr 9, 2008	6:00 - 9:00 AM	1656	0.4%
Thu Mar 8, 2007	6:00 - 9:00 AM	1847	3.9%
Wed Sep 13, 2006	6:00 - 9:00 AM	2194	2.1%
Wed Apr 27, 2005	6:00 - 9:00 AM	1891	3.5%
Thu Oct 7, 2004	6:00 - 9:00 AM	1899	3.0%
Tue Oct 21, 2003	6:00 - 9:00 AM	1920	5.0%
Thu Apr 25, 2002	6:00 - 9:00 AM	1746	6.9%
Tue Sep 25, 2001	6:00 - 9:00 AM	1681	3.0%
Thu Nov 2, 2000	6:00 - 9:00 AM	1263	7.0%
Tue Sep 28, 1999	6:00 - 9:00 AM	621	7.1%
Thu Nov 5, 1998	6:00 - 9:00 AM	1213	4.6%
Tue Oct 28, 1997	6:00 - 9:00 AM	1139	4.1%

PERIOD

TOTAL HOVL

P.M. PEAK

Tue May 20, 2008	3:00 - 6:00 PM	3700	1.1%
Tue Sep 11, 2007	3:00 - 6:00 PM	3759	2.2%
Wed Nov 29, 2006	3:00 - 6:00 PM	3757	0.9%
Tue Apr 26, 2005	3:00 - 6:00 PM	3727	3.2%
Thu Dec 2, 2004	3:00 - 6:00 PM	3842	2.4%
Tue Oct 21, 2003	3:00 - 6:00 PM	3677	3.4%
Wed Nov 20, 2002	3:00 - 6:00 PM	3989	4.5%
Tue May 8, 2001	3:00 - 6:00 PM	3742	5.0%
Wed Oct 4, 2000	3:00 - 6:00 PM	4165	3.6%
Tue Oct 26, 1999	3:00 - 6:00 PM	3224	4.9%
Tue Oct 6, 1998	3:00 - 6:00 PM	2819	3.1%
Wed Oct 15, 1997	3:00 - 6:00 PM	2755	4.9%

NOTES: (a) Morning period of operation from 6:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 6:00 PM.

MARIN-101

Southbound - A.M.

Mission Avenue to Richardson Bridge

Typical data for 2008 (5)

	PEAK PERIOD (4) 6:30 - 8:30 AM			PEAK HOUR 7:30 - 8:30 AM	
VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	54	21		28	10
Buses	41	47		18	30
Carpools (1)	887	610		444	406
Vanpools	10	2		1	0
Hybrid/Single Occ. (2)	18	6004	_	6	2928
Violators	94			59	
TOTAL	1104	6684		556	3374
PERSONS	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	54	21		28	10
Buses	1435	1645	_	630	1050
Carpools (1)	1870	1304		939	863
Vanpools	100	20		10	0
Hybrid/Single Occ. (2)	18	6004		6	2928
Violators	94	_		59	_
TOTAL	3571	8994		1672	4851
RATES					
HOV Lane occupancy rate	3.2	persons/veh		3.1	persons/veh
Mixed Flow occupancy rate	1.3	persons/veh		1.4	persons/veh
Overall occupancy (incl. buses)	1.6	persons/veh		1.7	persons/veh

NOTES: (1) Two or more occupants per vehicle.

1.6 %

- $(2) \ \ \textit{Hybrid HOV lane only/Single occ mixed flow lanes only}.$
- (3) Violation rate = no. of violators in HOV lane x 100%

Total no. of vehicles in HOV lane

1.0 %

- (4) HOV lane in operation from 6:30 to 8:00 A.M.
- (5) Observations conducted 10/15/08 at Route 131, E. Blithdale Ave. I/C.

(incl. buses)
Violation rate (3)

(HOV Lane)

MARIN-101

Northbound - P.M.

Richardson Bridge to Nellen Avenue UC

Typical data for 2008 (5)

PF	ΔK	PF	RIC	ח((4)
	\neg ı\		\cdots	<i>'</i>	

PEAK HOUR

4:30 - 7:00 PM

4:30 - 5:30 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	95	32	_	39	13
Buses	63	45	_	25	8
Carpools (1)	1003	992	_	439	428
Vanpools	15	12	_	5	2
Hybrid/Single Occ. (2)	18	8943	_	9	3658
Violators	68			29	
TOTAL	1262	10024		546	4109

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	95	32	39	13
Buses	2205	1575	875	280
Carpools (1)	2073	2157	906	933
Vanpools	150	120	50	20
Hybrid/Single Occ. (2)	18	8943	9	3658
Violators	68	_	29	_
TOTAL	4609	12827	1908	4904

RATES

HOV Lane occupancy rate	3.7 persons/veh	3.5 persons/veh
Mixed Flow occupancy rate	1.3 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.5 persons/veh	1.5 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	1.4 %	1.7 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 4:30 to 7:00 P.M.
- (5) Observations conducted 10/15/08 at Route 131, E. Blithdale Ave. I/C.

MARIN-101

Violation History

Mission Avenue to Richardson Bay Bridge

Southbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Wed Oct 15, 2008	6:30 - 8:30 AM	1104	1.6%
Wed Sep 19, 2007	6:30 - 8:30 AM	1159	1.5%
Thu Apr 13, 2006	6:30 - 8:30 AM	1049	1.4%
Thu Mar 3, 2005	6:30 - 8:30 AM	1099	3.0%
Thu Nov 4, 2004	6:30 - 8:30 AM	1015	4.4%
Tue Apr 8, 2003	6:30 - 8:30 AM	1118	3.4%
Wed Mar 20, 2002	6:30 - 8:30 AM	1591	1.9%
Wed Mar 28, 2001	6:30 - 8:30 AM	1495	2.3%
Thu Mar 23, 2000	6:30 - 8:30 AM	1538	2.8%
Wed Mar 17, 1999	6:30 - 8:30 AM	1394	2.3%
Tue Mar 3, 1998	6:30 - 8:30 AM	1106	1.6%
Tue Mar 11, 1997	6:30 - 8:30 AM	1367	2.4%
Thu Oct 17, 1996	6:30 - 8:30 AM	1446	1.2%
Tue Oct 31, 1995	6:30 - 8:30 AM	1389	3.7%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988

(b) Morning period of operation from 6:30 to 8:30 AM.

Violation History

Richardson Bay Bridge to Nellen Avenue UC

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
P.M. PEAK	Wed Oct 15, 2008	4:30 - 7:00 PM	1262	1.4%
	Wed Oct 3, 2007	4:30 - 7:00 PM	2545	1.2%
	Thu Apr 6, 2006	4:30 - 7:00 PM	1781	1.4%
	Thu Sep 29, 2005	4:30 - 7:00 PM	1953	1.6%
	Wed Oct 13, 2004	4:30 - 7:00 PM	1529	1.9%
	Wed Apr 16, 2003	4:30 - 7:00 PM	1370	2.4%
	Tue Sep 17, 2002	4:30 - 7:00 PM	1365	1.5%
	Tue Apr 3, 2001	4:30 - 7:00 PM	1544	3.9%
	Tue Oct 3, 2000	4:30 - 7:00 PM	1771	1.6%
	Tue Mar 16, 1999	4:30 - 7:00 PM	1719	1.9%
	Wed Apr 22, 1998	4:30 - 7:00 PM	1838	4.8%
	Wed Oct 1, 1997	4:30 - 7:00 PM	2217	5.4%
	Thu Oct 24, 1996	4:30 - 7:00 PM	1820	3.4%
	Tue Oct 24, 1995	4:30 - 7:00 PM	1779	3.9%

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988

⁽b) Evening period of operation from 4:30 to 7:00 PM.

Southbound - A.M.

Route 37 to N. San Pedro Road

Typical data for 2008 (5)

Mixed Flow

PE	AK	PER	IOD	(4)
----	----	------------	-----	-----

Mixed Flow

PEAK HOUR

6:30 - 8:30 AM

6:30 - 7:30 AM

VEHICLES	HOV Lane	Lanes		HOV Lane	Lanes
Motorcycles	76	14	_	40	5
Buses	25	8		13	4
Carpools (1)	1513	251		835	158
Vanpools	12	8		1	2
Hybrid/Single Occ. (2)	35	6829		20	3222
Violators	88	_	_	38	
TOTAL	1749	7110		947	3391

PERSONS	HOV Lane	Mixed Flow Lanes
Motorcycles	76	14
Buses	875	280
Carpools (1)	3083	537
Vanpools	120	80
Hybrid/Single Occ. (2)	35	6829
Violators	88	
TOTAL	4277	7740

HOV Lane	Mixed Flow Lanes
40	5
455	140
1707	338
10	20
20	3222
38	_
2270	3725

RATES

HOV Lane occupancy rate	2.4 persons/veh	2.4 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.4 persons/veh	1.4 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.0 %	2.2 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

Total no. of venicles in 110 v tan

- (4) HOV lane in operation from 6:30 to 8:30 A.M.
- (5) Observations conducted 10/09/08 at Alameda Del Prado Dr. I/C.

Northbound - P.M.

N. San Pedro Road to Route 37

Typical data for 2008 (5)

Mixed Flow

PEAI	K P	ERIC	OC	(4)
-------------	-----	------	----	-----

Mixed Flow

PEAK HOUR

4:30 - 7:00 PM

4:30 - 5:30 PM

1.7 %

VEHICLES	HOV Lane	Lanes	HOV Lane	Lanes
Motorcycles	72	40	27	26
Buses	45	60	21	34
Carpools (1)	1471	1186	687	436
Vanpools	17	0	7	0
Hybrid/Single Occ. (2)	16	13355	13	5374
Violators	103		41	_
TOTAL	1724	14641	796	5870
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	40	27	26
Buses	1575	2100	735	1190
Carpools (1)	3053	2512	1422	930
Vanpools	170	0	70	0
Hybrid/Single Occ. (2)	16	13355	13	5374
Violators	103		41	_
TOTAL	4989	18007	2308	7520
RATES				
HOV Lane occupancy rate	2.9	persons/veh	2.9	persons/veh
Mixed Flow occupancy rate	1.2	persons/veh	1.3	B persons/veh
Overall occupancy (incl. buses)	1.4	persons/veh	1.5	persons/veh
Violation rate (3)	0.9	%	1.7	7 %

NOTES: (1) Two or more occupants per vehicle.

0.9 %

- $(2) \ \ \textit{Hybrid HOV lane only/Single occ mixed flow lanes only}.$
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 4:30 to 7:00 P.M.
- (5) Observations conducted 04/03/08 at Manuel Freitas Truck Scale.

(HOV Lane)

Violation History

Route 37 to N. San Pedro Road

Southbound

VIOLATION

TOTAL HOVL

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu Oct 9, 2008	6:30 - 8:30 AM	1749	2.0%
Thu Sep 13, 2007	6:30 - 8:30 AM	2141	1.1%
Tue Oct 3, 2006	6:30 - 8:30 AM	2174	1.4%
Wed Nov 2, 2005	6:30 - 8:30 AM	2276	1.3%
Wed Nov 3, 2004	6:30 - 8:30 AM	2343	1.9%
Thu Apr 3, 2003	6:30 - 8:30 AM	2335	2.2%
Tue Mar 19, 2002	6:30 - 8:30 AM	2564	1.2%
Wed Oct 31, 2001	6:30 - 8:30 AM	2520	1.4%
Wed Mar 22, 2000	6:30 - 8:30 AM	2610	1.1%
Thu Mar 18, 1999	6:30 - 8:30 AM	2256	1.8%
Wed Mar 4, 1998	6:30 - 8:30 AM	2047	3.3%
Wed Nov 5, 1997	6:30 - 8:30 AM	2690	5.1%
Tue Nov 19, 1996	6:30 - 8:30 AM	2507	2.6%
Wed Oct 25, 1995	6:30 - 8:30 AM	2609	4.3%

PERIOD

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988

⁽b) Morning period of operation from 6:30 to 8:30 AM.

Violation History

N. San Pedro Road to Route 37

Northbound

P.M. PEAK

NOTES: (a) Minimum occupancy requirement was reduced to 2 persons per vehicle on October 1, 1988

(b) Evening period of operation from 4:30 to 7:00 PM.

Southbound - P.M.

Route 101(Mountain View) to Route 280

Typical data for 2008 (5)

1.0 persons/veh

1.3 persons/veh

0.6 %

	PEAK PERIOD (4) 3:00 - 6:00 PM			AK HOUR 00 - 6:00 PM
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV La	Mixed Flow ne Lanes
Motorcycles	149	2	75	1
Buses	19	11	11	0
Carpools (1)	2310	154	872	42
Vanpools	8	0	2	0
Hybrid/Single Occ. (2)	291	9468	149	3270
Violators	76		7	_
TOTAL	2853	9635	1116	3313
PERSONS	HOV Lane	Mixed Flow Lanes	HOV La	Mixed Flow ne Lanes
Motorcycles	149	2	75	1
Buses	665	385	385	0
Carpools (1)	4811	330	1785	93
Vanpools	80	0	20	0
Hybrid/Single Occ. (2)	291	9468	149	3270
Violators	76		7	_
TOTAL	6072	10185	2421	3364
RATES				
HOV Lane occupancy rate	2.1	persons/veh		2.2 persons/veh

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

Total no. of vehicles in HOV lane

(4) HOV lane in operation from 3:00 to 7:00 P.M.

1.1 persons/veh

1.3 persons/veh

2.7 %

(5) Observations conducted 09/30/08 at Fremont Avenue I/C

Mixed Flow

(incl. buses)
Violation rate (3)

(HOV Lane)

occupancy rate

Overall occupancy

Northbound - A.M.

Route 280 to Route 101(Mountain View)

Typical data for 2008 (5)

DEAK	DED		(4)
PEAN	PER	IUU.	` '

PEAK HOUR

6:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	104	7	48	2
Buses	18	0	6	0
Carpools (1)	1627	211	743	82
Vanpools _	6	0	2	0
Hybrid/Single Occ. (2)	370	10232	247	3799
Violators	43		40	
TOTAL	2168	10450	1086	3883

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	104	7	48	2
Buses	630	0	210	0
Carpools ⁽¹⁾	3330	450	1519	182
Vanpools	60	0	20	0
Hybrid/Single Occ. (2)	370	10232	247	3799
Violators	43	_	40	_
TOTAL	4537	10689	2084	3983

RATES

HOV Lane occupancy rate	2.1 persons/veh	1.9 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	2.0 %	3.7 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 12/10/08 at Fremont Avenue I/C

Violation History

Route 101 (Mountain View) to Route 280

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Wed Oct 23, 2002	7:00 - 9:00 AM	540	10.0%
Thu Jun 7, 2001	6:00 - 9:00 AM	560	4.1%
Wed Sep 27, 2000	6:00 - 9:00 AM	604	13.2%
Tue Jun 8, 1999	6:00 - 9:00 AM	597	9.4%
Wed Mar 04, 1998	6:00 - 9:00 AM	551	0.5%
Tue Feb 25, 1997	6:45 - 9:00 AM	397	5.3%
Wed Apr 3, 1996	6:00 - 9:00 AM	359	5.0%

PERIOD

TOTAL HOVL

P.M. PEAK

Tue Sep 30, 2008	3:00 - 6:00 PM	2853	2.7%
Wed Dec 12, 2007	3:00 - 6:00 PM	2947	4.0%
Tue Oct 24, 2006	3:00 - 6:00 PM	2164	0.5%
Wed Oct 12, 2005	3:00 - 6:00 PM	2265	0.7%
Tue Nov 30, 2004	3:00 - 5:15 PM	1510	0.7%
Wed Jun 4, 2003	3:00 - 6:00 PM	2323	1.6%
Wed May 29, 2002	3:00 - 6:00 PM	2647	4.4%
Tue Sep 25, 2001	3:00 - 6:00 PM	2656	6.4%
Thu Jun 1, 2000	3:00 - 6:00 PM	2792	0.9%
Thu May 13, 1999	3:00 - 6:00 PM	3121	1.4%
Thu Apr 9, 1998	4:00 - 6:00 PM	2058	0.2%
Tue Sept 30, 1997	3:00 - 6:00 PM	2277	1.2%
Thu May 16, 1996	3:00 - 6:00 PM	2165	3.0%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 off-peak direction

Violation History

Route 280 to Route 101 (Mountain View)

Northbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Wed Dec 10, 2008	6:00 - 9:00 AM	2168	2.0%
Tue Apr 17, 2007	6:00 - 9:00 AM	2722	0.0%
Wed Oct 11, 2006	6:00 - 9:00 AM	2501	0.7%
Tue Oct 18, 2005	6:00 - 9:00 AM	1703	3.0%
Wed Nov 3, 2004	6:00 - 9:00 AM	2132	0.7%
Wed Oct 29, 2003	6:00 - 9:00 AM	1151	0.8%
Tue Oct 8, 2002	7:00 - 9:00 AM	1435	1.5%
Tue Apr 10, 2001	6:00 - 9:00 AM	2471	1.8%
Tue Oct 17, 2000	7:00 - 9:00 AM	2188	10.1%
Wed Oct 6, 1999	6:00 - 9:00 AM	2402	4.9%
Tue Dec 1, 1998	6:00 - 9:00 AM	2473	4.7%
Thu Dec 4, 1997	7:00 - 9:00 AM	1584	0.1%
Wed Nov 20, 1996	6:45 - 9:00 AM	1840	0.2%

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu Oct 31, 2002	3:00 - 5:30 PM	761	2.2%
Wed Oct 10, 2001	3:00 - 6:00 PM	1124	0.4%
Thu May 4, 2000	3:00 - 6:00 PM	940	2.1%
Thu Oct 28, 1999	3:00 - 6:00 PM	845	1.2%
Wed Mar 4, 1998	3:00 - 6:00 PM	852	3.5%
Tue Feb 25, 1997	3:00 - 6:00 PM	1051	2.7%
Tue Jun 4, 1996	3:00 - 6:00 PM	1008	8.2%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Route 280 to Almaden Expressway

Typical data for 2008 (5)

PE	AK	PER	IOD	(4)
----	----	------------	-----	-----

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	98	20	22	7
Buses	18	5	4	1
Carpools (1)	2699	821	1118	250
Vanpools	32	1	12	1
Hybrid/Single Occ. (2)	251	11698	89	4079
Violators	128		42	
TOTAL	3226	12545	1287	4338

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	98	20	22	7
Buses	630	175	140	35
Carpools (1)	6012	1744	2490	523
Vanpools	320	10	120	10
Hybrid/Single Occ. (2)	251	11698	89	4079
Violators	128		42	_
TOTAL	7439	13647	2903	4654

RATES

HOV Lane occupancy rate	2.3 persons/veh	2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	4.0 %	3.3 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 04/22/08 at Winchester Boulevard I/C

Northbound - A.M.

Almaden Expressway to Route 280

Typical data for 2008 (5)

PF	ΔK	PFR	IOD	(4)
	\neg	1 -11	IUU	

PEAK HOUR

6:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	10	28	3
Buses	1	5	0	1
Carpools (1)	2060	282	951	98
Vanpools _	11	0	4	0
Hybrid/Single Occ. (2)	250	10426	151	3395
Violators	26		13	
TOTAL	2421	10723	1147	3497

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	73	10	28	3
Buses	35	175	0	35
Carpools (1)	4352	639	1985	227
Vanpools	110	0	40	0
Hybrid/Single Occ. (2)	250	10426	151	3395
Violators	26		13	
TOTAL	4846	11250	2217	3660

RATES

HOV Lane occupancy rate	2.0 persons/veh	1.9 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	1.1 %	1.1 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 05/01/08 at Union Avenue I/C

Violation History

Route 280 to Almaden Expressway

Southbound

VIOLATION

A.M. PEAK

MONITORED	VOLUME	RATE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
6:00 - 9:00 AM	256	9.0%
6:00 - 9:00 AM	341	5.9%
6:00 - 9:00 AM	363	1.7%
6:30 - 9:00 AM	371	0.3%
6:00 - 9:00 AM	416	2.4%
6:00 - 9:00 AM	456	8.6%
6:30 - 9:00 AM	328	9.1%
	- - - - 6:00 - 9:00 AM 6:00 - 9:00 AM 6:00 - 9:00 AM 6:00 - 9:00 AM 6:00 - 9:00 AM	

PERIOD

TOTAL HOVL

P.M. PEAK

Tue Apr 22, 2008	3:00 - 6:00 PM	3226	4.0%
Tue Dec 4, 2007	3:00 - 6:00 PM	3259	1.1%
Tue May 16, 2006	3:00 - 6:00 PM	2429	0.2%
Thu Oct 13, 2005	3:00 - 6:00 PM	2311	0.9%
Wed Oct 6, 2004	3:00 - 6:00 PM	2288	0.5%
Wed Oct 22, 2003	3:00 - 6:00 PM	2151	2.3%
Wed Mar 13, 2002	3:00 - 6:00 PM	2866	3.4%
Thu Apr 5, 2001	3:00 - 6:00 PM	2798	0.5%
Tue Apr 18, 2000	3:00 - 6:00 PM	3056	0.5%
Thu Mar 11, 1999	3:00 - 6:00 PM	2963	0.1%
Thu Jun 4, 1998	3:00 - 6:00 PM	3004	0.1%
Thu Feb 27, 1997	3:00 - 6:00 PM	2460	1.3%
Tue Apr 30, 1996	3:00 - 6:00 PM	3167	7.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

⁽c) Data was not collected in 2008 for off-peak direction

Violation History

Almaden Expressway to Route 280

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu May 1, 2008	6:00 - 9:00 AM	2421	1.1%
Thu Nov 1, 2007	6:00 - 9:00 AM	2564	2.5%
Wed Sep 27, 2006	6:00 - 9:00 AM	3298	1.2%
Thu Oct 6, 2005	6:00 - 9:00 AM	2418	0.4%
Thu Oct 28, 2004	7:00 - 9:00 AM	1813	0.4%
Wed Oct 22, 2003	7:00 - 9:00 AM	2012	0.0%
Wed Mar 27, 2002	6:00 - 9:00 AM	2572	4.6%
Tues Oct 16, 2001	6:00 - 9:00 AM	3298	6.4%
Wed Jun 7, 2000	6:00 - 9:00 AM	3555	9.9%
Tue Oct 26, 1999	7:00 - 9:00 AM	2350	3.0%
Wed May 13, 1998	6:00 - 9:00 AM	2801	12.2%
Wed Nov 5, 1997	6:00 - 9:00 AM	3036	0.4%
Wed Nov 20,1996	6:45 - 9:00 AM	1840	0.2%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu Apr 4, 2002	3:00 - 6:00 PM	1068	7.5%
Tue Jun 12, 2001	3:00 - 6:00 PM	985	8.9%
Tue Oct 17, 2000	3:00 - 6:00 PM	642	3.6%
Tue Feb 23, 1999	3:00 - 6:00 PM	866	8.7%
Wed Apr 8, 1998	3:00 - 6:00 PM	1097	4.4%
Wed Oct 8, 1997	3:00 - 6:00 PM	895	0.3%
Wed Sep 25, 1996	3:00 - 6:00 PM	1417	0.6%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Almaden Expressway to Route 101 (So.San Jose)

Typical data for 2008 (5)

PEAK PERIOD (4)

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	90	18		37	8
Buses	12	49	_	2	11
Carpools (1)	2353	682	_	865	220
Vanpools	4	7	_	0	2
Hybrid/Single Occ. (2)	117	8966		44	3262
Violators	30		_	3	_
TOTAL	2606	9722	_	951	3503

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	90	18	37	8
Buses	420	1715	70	385
Carpools (1)	4804	1507	1777	479
Vanpools	40	70	0	20
Hybrid/Single Occ. (2)	117	8966	44	3262
Violators	30		3	_
TOTAL	5501	12276	1931	4154

RATES

HOV Lane occupancy rate	2.1 persons/veh	2.0 persons/veh
Mixed Flow occupancy rate	1.3 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.4 persons/veh	1.4 persons/veh
Violation rate (3) (HOV Lane)	1.2 %	0.3 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 05/01/08 at Blossom Hill Road I/C

Northbound - A.M.

Route 101 (So. San Jose) to Almaden Expressway

Typical data for 2008 (5)

DE	۸K	PFRI	(4)

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	ŀ	HOV Lane	Mixed Flow Lanes
Motorcycles	33	13		12	7
Buses	0	24		0	13
Carpools (1)	1245	647		536	310
Vanpools	0	2		0	0
Hybrid/Single Occ. (2)	145	6939		65	2398
Violators	16			6	
TOTAL	1439	7625		619	2728

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	33	13	12	7
Buses	0	840	0	455
Carpools (1)	2576	1366	1100	655
Vanpools	0	20	0	0
Hybrid/Single Occ. (2)	145	6939	65	2398
Violators	16		6	
TOTAL	2770	9178	1183	3515

RATES

HOV Lane occupancy rate	1.9 persons/veh	1.9 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.3 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.4 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	1.1 %	1.0 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 04/08/08 at Blossom Hill Road Train Station

Violation History

Almaden Expressway to Route 101 (So. San Jose)

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Wed Apr 24, 2002	6:00 - 9:00 AM	675	0.3%
Wed May 2, 2001	6:00 - 9:00 AM	595	1.7%
Wed May 3, 2000	6:00 - 9:00 AM	635	7.1%
Wed Feb 3, 1999	6:00 - 9:00 AM	739	0.0%
Tue May 19, 1998	6:00 - 9:00 AM	602	0.0%
Thu Dec 4, 1997	6:00 - 9:00 AM	282	12.8%
Tue May 21, 1996	6:00 - 9:00 AM	324	13.0%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu May 1, 2008	3:00 - 6:00 PM	2606	1.2%
Wed Mar 21, 2007	3:00 - 6:00 PM	2005	3.2%
Thu Apr 20, 2006	3:00 - 6:00 PM	1547	3.4%
Thu Sep 29, 2005	3:00 - 6:00 PM	1601	0.9%
Thu Oct 14, 2004	3:00 - 6:00 PM	2050	0.2%
Thu Jun 5, 2003	3:00 - 6:00 PM	1652	0.6%
Thu May 2, 2002	3:00 - 6:00 PM	1981	3.8%
Wed Oct 3, 2001	3:00 - 6:00 PM	2418	0.2%
Wed Oct 18, 2000	3:00 - 6:00 PM	2354	0.6%
Tue May 18, 1999	3:00 - 6:00 PM	2112	2.5%
Thu Dec 3, 1998	3:00 - 6:00 PM	4447	0.0%
Thu Oct 16, 1997	3:00 - 6:00 PM	1754	3.6%
Thu Sep 19, 1996	3:00 - 6:00 PM	960	5.4%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

⁽c) Data was not collected in 2008 for off-peak direction

Violation History

Route 101 (So. San Jose) to Almaden Expressway

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue Apr 8, 2008	6:00 - 9:00 AM	1439	1.1%
Tue May 22, 2007	6:00 - 9:00 AM	1542	0.7%
Tue May 23, 2006	6:00 - 9:00 AM	1131	3.8%
Thu Oct 13, 2005	6:00 - 9:00 AM	960	2.4%
Tue Nov 30, 2004	6:00 - 9:00 AM	1044	0.0%
Thu Oct 23, 2003	7:00 - 9:00 AM	1035	0.0%
Tue Mar 12, 2002	6:00 - 9:00 AM	939	2.6%
Thu Apr 12, 2001	6:00 - 9:00 AM	1678	7.3%
Thu Oct 5, 2000	7:00 - 9:00 AM	1222	5.2%
Tue Oct 5, 1999	6:00 - 9:00 AM	1669	1.1%
Wed Mar 25, 1998	6:00 - 9:00 AM	1482	0.4%
Thu Mar 6, 1997	6:30 - 9:00 AM	1019	7.7%
Thu Jun 13, 1996	6:00 - 9:00 AM	1151	8.4%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Wed Apr 24, 2002	3:00 - 6:00 PM	976	5.0%
Tue Oct 9, 2001	3:00 - 6:00 PM	814	8.6%
Wed May 3, 2000	3:00 - 6:00 PM	784	5.6%
Thu Nov 17, 1999	3:00 - 5:30 PM	826	6.5%
Thu May 7, 1998	3:00 - 6:00 PM	1062	10.1%
Tue Oct 30, 1997	3:00 - 6:00 PM	1245	0.2%
Wed Mar 20, 1996	3:00 - 6:00 PM	907	9.0%
Wed Mar 20, 1996	3:00 - 6:00 PM	907	9

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

- (b) Evening period of operation from 3:00 to 7:00 PM.
- (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Route 101 I/C to Route 280 I/C

Typical data for 2008 (5)

PF	ΔK	PFR	IOD	(4)
	\neg	1 -11	IUU	

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	83	4	56	0
Buses	4	13	3	0
Carpools (1)	1246	396	655	72
Vanpools	14	9	2	1
Hybrid/Single Occ. (2)	105	8480	68	2902
Violators	44		7	
TOTAL	1496	8902	791	2975

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	83	4	56	0
Buses	140	455	105	0
Carpools (1)	2496	838	1313	146
Vanpools	140	90	20	10
Hybrid/Single Occ. (2)	105	8480	68	2902
Violators	44		7	_
TOTAL	3008	9867	1569	3058

RATES

HOV Lane occupancy rate	2.0 persons/veh	2.0 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.9 %	0.9 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 04/09/08 at Taylor Avenue I/C

Northbound - A.M.

Route 280 I/C to Route 101 I/C

Typical data for 2008 (5)

PEAK	PERIO	D (4)
------	-------	--------------

PEAK HOUR

6:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	10	30	3
Buses	11	18	6	1
Carpools (1)	963	169	476	56
Vanpools	9	3	4	1
Hybrid/Single Occ. (2)	112	9151	62	3434
Violators	81		49	
TOTAL	1256	9351	627	3495

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	80	10	30	3
Buses	385	630	210	35
Carpools (1)	1955	360	966	124
Vanpools	90	30	40	10
Hybrid/Single Occ. (2)	112	9151	62	3434
Violators	81		49	_
TOTAL	2703	10181	1357	3606

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	6.4 %	7.8 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 11/13/08 at Taylor Avenue I/C

Violation History

Rte 101 I/C to Route 280 I/C

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2008	-	-	-
	Year 2007	-	-	-
P.M. PEAK	Wed Apr 9, 2008	3:00-6:00 PM	1496	2.9%
	Wed Oct 3, 2007	3:00-6:00 PM	1373	0.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

- (b) Evening period of operation from 3:00 to 7:00 PM.
- (c) Data was not collected in 2008 for off-peak direction

Violation History

Route 280 I/C to Route 101 I/C

Northbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Thu Nov 13, 2008	6:00 - 9:00 AM	1256	6.4%
Tue Sep 25, 2007	6:00 - 9:00 AM	1048	7.6%
Thu Sep 21, 2006	6:00 - 9:00 AM	532	1.7%
Tue Nov 8, 2005	6:00 - 9:00 AM	494	3.2%

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 7:00 PM.

 $(c)\ \textit{Data was not collected in 2008 for off-peak direction}$

Southbound - P.M.

Route 280 I/C to Route 85 I/C

Typical data for 2008 (5)

|--|

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	82	39		42	24
Buses	10	28	_	1	5
Carpools (1)	1226	1560		504	554
Vanpools	1	10	_	0	3
Hybrid/Single Occ. (2)	60	10136	_	36	3592
Violators	54		_	11	
TOTAL	1433	11773		594	4178

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	82	39	42	24
Buses	350	980	35	175
Carpools (1)	2664	3517	1070	1276
Vanpools	10	100	0	30
Hybrid/Single Occ. (2)	60	10136	36	3592
Violators	54		11	_
TOTAL	3220	14772	1194	5097

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.0 persons/veh
Mixed Flow occupancy rate	1.3 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.4 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	3.8 %	1.9 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/16/08 at Capitol Avenue I/C

Northbound - A.M.

Route 85 I/C to Route 280 I/C

Typical data for 2008 (5)

PEAK PERIOD (4)	
-----------------	--

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	130	6	48	3
Buses	12	2	4	0
Carpools (1)	2502	60	1032	34
Vanpools _	7	1	1	0
Hybrid/Single Occ. (2)	150	10297	52	3495
Violators	37		10	
TOTAL	2838	10366	1147	3532

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	130	6	48	3
Buses	420	70	140	0
Carpools (1)	5080	148	2103	81
Vanpools	70	10	10	0
Hybrid/Single Occ. (2)	150	10297	52	3495
Violators	37	_	10	_
TOTAL	5887	10531	2363	3579

RATES

HOV Lane occupancy rate	2.1 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.0 persons/veh	1.0 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	1.3 %	0.9 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lane only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 10/29/08 at Curtner Avenue I/C

Violation History

Route 280 I/C to Jct Rte 85

Southbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2008	-	-	-
	Year 2007	-	-	-

P.M. PEAK

Thu Oct 16, 2008	3:00-6:00 PM	1433	3.8%
Wed June 13, 2007	3:00-6:00 PM	1326	5.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

- (b) Evening period of operation from 3:00 to 7:00 PM.
- (c) Data was not collected in 2008 for off-peak direction

Violation History

Jct Rte 85 to Route 280 I/C

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Oct 29, 2008	6:00 - 9:00 AM	2838	1.3%
	Thu Oct 11, 2007	6:00 - 9:00 AM	2021	0.7%

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

- (b) Evening period of operation from 3:00 to 7:00 PM.
- (c) Data was not collected in 2008 for off-peak direction

Southbound - A.M.

SM/SCL County Line to Ellis Street

Typical data for 2008 (5)

PF	ΔK	PF	RIC	ח((4)
	\neg ı\		\cdots	<i>'</i>	

PEAK HOUR

6:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	НС	OV Lane	Mixed Flow Lanes
Motorcycles	93	19		38	3
Buses	36	14		23	6
Carpools (1)	1337	463		680	153
Vanpools	11	6		8	1
Hybrid/Single Occ. (2)	257	15432		164	6018
Violators	13			5	
TOTAL	1747	15934		918	6181

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	93	19	38	3
Buses	1260	490	805	210
Carpools ⁽¹⁾	2805	1056	1414	354
Vanpools	110	60	80	10
Hybrid/Single Occ. (2)	257	15432	164	6018
Violators	13	_	5	_
TOTAL	4538	17057	2506	6595

RATES

HOV Lane occupancy rate	2.6 persons/veh	2.7 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	0.7 %	0.5 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 06/05/08 at the San Antonio Road

Southbound - P.M.

SM/SCL County Line to Ellis Street

Typical data for 2008 (5)

DE	۸K	PER		(4)
	AN	PER	IUU.	٠,

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	76	22	20	4
Buses	7	16	4	1
Carpools (1)	3405	622	1150	180
Vanpools	5	0	1	0
Hybrid/Single Occ. (2)	92	12769	42	4515
Violators	113		52	
TOTAL	3698	13429	1269	4700

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	76	22	20	4
Buses	245	560	140	35
Carpools (1)	6929	1330	2358	388
Vanpools	50	0	10	0
Hybrid/Single Occ. (2)	92	12769	42	4515
Violators	113		52	_
TOTAL	7505	14681	2622	4942

RATES

HOV Lane occupancy rate	2.0 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	3.1 %	4.1 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 11/18/08 at the San Antonio Road

Northbound - A.M.

Ellis Street to SCL/SM County Line

Typical data for 2008 (5)

2.3 persons/veh

1.1 persons/veh

1.3 persons/veh

0.4 %

PEAK HOUR

	6:00 - 9	9:00 AM	7:00 - 8	3:00 AM
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	96	47	38	23
Buses	14	30	6	6
Carpools (1)	1879	352	751	166
Vanpools	19	22	11	20
Hybrid/Single Occ. (2)	266	15224	81	5706
Violators	4	_	4	_
TOTAL	2278	15675	891	5921
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	96	47	38	23
Buses	490	1050	210	210
Carpools (1)	3911	749	1581	354
Vanpools	190	220	110	200
Hybrid/Single Occ. (2)	266	15224	81	5706
Violators	4	_	4	_
TOTAL	4957	17290	2024	6493
RATES				

PEAK PERIOD (4)

HOV Lane

Mixed Flow

(incl. buses) Violation rate (3)

(HOV Lane)

occupancy rate

occupancy rate

Overall occupancy

NOTES: (1) Two or more occupants per vehicle.

0.2 %

(2) Hybrid HOV lane only/single occ mixed flow lanes.

2.2 persons/veh

1.1 persons/veh

1.2 persons/veh

(3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 09/30/08 at the San Antonio Road I/C

Northbound - P.M.

Ellis Street to SM/SCL County Line

Typical data for 2008 (5)

PEAK HOUR

3:00 - 6:00 PM

3:00 - 4:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	37	2		7	0
Buses	18	18	_	6	7
Carpools (1)	2654	362	_	767	202
Vanpools _	14	6	_	3	4
Hybrid/Single Occ. (2)	169	15405	_	33	5361
Violators	23		_	18	
TOTAL	2915	15793		834	5574

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	37	2	7	0
Buses	630	630	210	245
Carpools ⁽¹⁾	5405	787	1577	440
Vanpools	140	60	30	40
Hybrid/Single Occ. (2)	169	15405	33	5361
Violators	23		18	_
TOTAL	6404	16884	1875	6086

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	0.8 %	2.2 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/single occ Mixed flow lanes.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 12/17/08 at the San Antonio Road I/C

Violation History

SM/SCL County Line to Ellis Street

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu Jun 5, 2008	6:00 - 9:00 AM	1747	0.7%
Wed Nov 14, 2007	6:00 - 9:00 AM	1702	1.9%
Tue Dec 5, 2006	6:00 - 9:00 AM	1352	0.7%
Thu Sep 15, 2005	6:00 - 9:00 AM	1654	0.5%
Wed Nov 17, 2004	6:00 - 9:00 AM	1762	0.3%
Thu Oct 30, 2003	6:00 - 9:00 AM	1970	6.6%
Wed May 15, 2002	6:00 - 9:00 AM	1949	6.6%
Wed Mar 21, 2001	6:00 - 9:00 AM	2710	0.8%
Wed Sep 13, 2000	6:00 - 9:00 AM	2823	10.5%
Wed Apr 28, 1999	6:00 - 9:00 AM	2817	3.3%
Thu Mar 12, 1998	6:00 - 9:00 AM	2885	0.6%
Tue Dec 2, 1997	6:00 - 9:00 AM	2773	2.1%
Thu Apr 25, 1996	6:30 - 9:00 AM	3742	1.5%
Thu Jun 8, 1995	6:00 - 9:00 AM	2973	1.6%

PERIOD

TOTAL HOVL

P.M. PEAK

Tue Nov 18, 2008	3:00 - 6:00 PM	3698	3.1%
Wed Apr 4, 2007	3:00 - 6:00 PM	2763	0.3%
Wed Apr 26, 2006	3:00 - 6:00 PM	2509	3.1%
Wed Mar 30, 2005	3:00 - 6:00 PM	3001	3.6%
Wed Oct 27, 2004	3:00 - 6:00 PM	2420	0.3%
Tue Oct 28, 2003	3:00 - 5:45 PM	2608	1.4%
Tue May 14, 2002	3:00 - 6:00 PM	2119	0.7%
Wed Oct 24, 2001	3:00 - 6:00 PM	2935	4.4%
Thu Mar 25, 1999	3:00 - 6:00 PM	3037	1.2%
Thu Mar 25, 1999	3:00 - 6:00 PM	3037	1.2%
Tue Mar 17, 1998	3:00 - 6:00 PM	2406	0.7%
Wed Oct 29, 1997	3:00 - 6:00 PM	2666	0.0%
Wed Oct 2 1996	3:00 - 6:00 PM	2836	0.6%
Wed Oct 4 1995	3:00 - 6:00 PM	2591	3.9%

NOTES:

- (a) Morning period of operation from 5:00 to 9:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

Violation History

Ellis Street to SM/SCL County Line

Northbound

VIOLATION

A.M. PEAK

MONITORED	VOLUME	RATE
6:00 - 9:00 AM	2278	0.2%
6:00 - 9:00 AM	2301	0.0%
6:00 - 9:00 AM	2581	12.1%
6:00 - 9:00 AM	2494	4.5%
6:00 - 9:00 AM	1641	0.3%
6:00 - 9:00 AM	2132	5.8%
6:45 - 9:00 AM	1479	2.4%
6:00 - 9:00 AM	1942	6.0%
6:00 - 9:00 AM	2047	5.1%
6:30 - 9:00 AM	1745	2.5%
6:00 - 9:00 AM	1986	0.1%
7:00 - 9:00 AM	1720	3.8%
6:00 - 9:00 AM	3249	0.7%
6:00 - 9:00 AM	2070	5.9%
	6:00 - 9:00 AM 6:00 - 9:00 AM 6:45 - 9:00 AM 6:00 - 9:00 AM 6:30 - 9:00 AM 6:00 - 9:00 AM 6:00 - 9:00 AM	6:00 - 9:00 AM 2278 6:00 - 9:00 AM 2301 6:00 - 9:00 AM 2581 6:00 - 9:00 AM 2494 6:00 - 9:00 AM 1641 6:00 - 9:00 AM 2132 6:45 - 9:00 AM 1479 6:00 - 9:00 AM 1942 6:00 - 9:00 AM 2047 6:30 - 9:00 AM 1745 6:00 - 9:00 AM 1986 7:00 - 9:00 AM 1720 6:00 - 9:00 AM 3249

PERIOD

TOTAL HOVL

P.M. PEAK

Wed Dec 17, 2008	3:00 - 6:00 PM	2915	0.8%
Tue Sep 11, 2007	3:00 - 6:00 PM	2700	0.4%
Tue Dec 5, 2006	3:00 - 6:00 PM	2090	0.1%
Wed Oct 5, 2005	3:00 - 6:00 PM	1656	0.8%
Thu Dec 2, 2004	3:00 - 5:00 PM	1369	2.8%
Tue Jun 3, 2003	3:00 - 6:00 PM	2635	7.2%
Thu Jun 6, 2002	3:00 - 6:00 PM	3064	2.1%
Wed Oct 17, 2001	3:00 - 6:00 PM	2523	3.2%
Tue Nov 7, 2000	3:00 - 6:00 PM	3032	4.6%
Tue Apr 27, 1999	3:00 - 6:00 PM	3034	1.5%
Wed Mar 11, 1998	3:00 - 6:00 PM	2464	1.3%
Thu Apr 24, 1997	3:00 - 6:00 PM	3693	0.2%
Tue Nov 12, 1996	3:00 - 6:00 PM	3151	0.1%
Wed Mar 15, 1995	3:00 - 6:00 PM	4260	3.4%

NOTES:

- (a) Morning period of operation from 5:00 to 9:00 AM.
- (b) Evening period of operation from 3:00 to 7:00 PM.

Southbound - P.M.

Ellis Street to Guadalupe Parkway

Typical data for 2008 (5)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	135	17	64	3
Buses	22	12	6	0
Carpools (1)	2504	875	796	354
Vanpools _	10	0	5	0
Hybrid/Single Occ. (2)	102	11603	48	3843
Violators	6		0	
TOTAL	2779	12507	919	4200

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	135	17	64	3
Buses	770	420	210	0
Carpools (1)	5113	1910	1635	769
Vanpools	100	0	50	0
Hybrid/Single Occ. (2)	102	11603	48	3843
Violators	6		0	_
TOTAL	6226	13950	2007	4615

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	0.2 %	0.0 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ. mixed flow lanes.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/09/08 at the San Tomas Expressway I/C

Northbound - A.M.

Guadalupe Parkway to Ellis Street

Typical data for 2008 (5)

PF/	١K	PF	RI	\mathbf{O}	ח	(4)
Γ	11	Γ		$\mathbf{\omega}$	_	

PEAK HOUR

6:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	30	29		11	17
Buses	9	11		5	6
Carpools (1)	1531	630		761	286
Vanpools	7	2		4	0
Hybrid/Single Occ. (2)	54	13570	_	34	4968
Violators	64			35	
TOTAL	1695	14242		850	5277

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	30	29	11	17
Buses	315	385	175	210
Carpools (1)	3161	1399	1579	633
Vanpools	70	20	40	0
Hybrid/Single Occ. (2)	54	13570	34	4968
Violators	64		35	_
TOTAL	3694	15403	1874	5828

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	3.8 %	4.1 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ. mixed flow lanes.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 12/11/08 at the Fair Oaks Avenue I/C

Violation History

Ellis Street to Guadalupe Parkway

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Tue Dec 3, 2002	6:00 - 9:00 AM	668	2.2%
Tue Jun 5, 2001	6:00 - 9:00 AM	765	2.1%
Thu Apr 20, 2000	6:00 - 9:00 AM	916	3.8%
Thur Oct 21, 1999	7:00 - 9:00 AM	739	1.8%
Thu Apr 9, 1998	6:00 - 9:00 AM	1163	4.3%
Wed Dec 3, 1997	6:00 - 9:00 AM	1272	8.6%
Thu Nov 7, 1996	6:45 - 9:00 AM	2212	1.1%
Wed Oct 4, 1995	7:00 - 9:00 AM	1057	4.5%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu Oct 9, 2008	3:00 - 6:00 PM	2779	0.2%
Thu Nov 15, 2007	3:00 - 6:00 PM	3266	0.2%
Tue Apr 18, 2006	3:00 - 6:00 PM	2779	0.3%
Wed Apr 27, 2005	3:00 - 6:00 PM	2964	0.3%
Tue Nov 16, 2004	3:00 - 5:30 PM	2190	0.4%
Thu May 29, 2003	3:00 - 6:00 PM	3454	3.6%
Thu Apr 11, 2002	3:00 - 6:00 PM	2912	1.2%
Thu Mar 29, 2001	3:00 - 6:00 PM	3903	3.1%
Wed Nov 15, 2000	3:00 - 5:30 PM	3077	2.7%
Wed Oct 20, 1999	3:00 - 6:00 PM	3954	2.3%
Thu May 14, 1998	4:00 - 6:30 PM	3124	0.2%
Tue Apr 22, 1997	3:00 - 6:00 PM	3268	1.0%
Wed May 22, 1996	3:00 - 6:00 PM	3832	1.3%
Thu Apr 20, 1995	3:00 - 7:00 PM	5831	1.5%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

⁽c) Data was not collected in 2008 for off-peak direction

Violation History

Guadalupe Parkway to Ellis Street

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu Dec 11, 2008	6:00 - 9:00 AM	1695	3.8%
Thu Nov 15, 2007	6:00 - 9:00 AM	2371	0.9%
Tue Nov 14, 2006	6:00 - 9:00 AM	1811	0.7%
Wed Oct 26, 2005	7:00 - 9:00 AM	1221	0.4%
Tue Nov 16, 2004	6:00 - 9:00 AM	1799	0.7%
Wed May 7, 2003	6:00 - 9:00 AM	2142	0.6%
Thu Apr 4, 2002	6:00 - 9:00 AM	1646	7.5%
Wed Sep 26, 2001	6:00 - 9:00 AM	1607	0.8%
Tue Apr 4, 2000	6:00 - 9:00 AM	1527	2.8%
Wed Oct 20, 1999	7:00 - 9:00 AM	1299	0.5%
Thu Oct 1, 1998	7:00 - 9:00 AM	1268	1.6%
Thu Nov 20, 1997	6:00 - 9:00 AM	1700	0.0%
Thu Sep 26, 1996	7:00 - 9:00 AM	1765	0.7%
Thu Oct 5, 1995	7:00 - 9:00 AM	1594	3.8%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Wed May 22, 2002	3:00 - 6:00 PM	1487	3.8%
Wed May 10, 2000	3:00 - 6:00 PM	1684	0.3%
Tue Jun 8, 1999	3:00 - 6:00 PM	1765	2.2%
Thu May 21, 1998	3:00 - 6:00 PM	2066	4.5%
Thu Apr 10, 1997	3:00 - 6:00 PM	1563	1.5%
Tue May 21, 1996	3:00 - 6:00 PM	2126	4.2%
Tue Oct 17, 1995	3:00 - 6:00 PM	1910	6.0%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Guadalupe Parkway to Route 280/680

Typical data for 2008 (5)

|--|

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	36	23	_	15	8
Buses	5	5	_	3	2
Carpools (1)	3329	639		1351	286
Vanpools _	0	2	_	0	1
Hybrid/Single Occ. (2)	34	12717		12	4295
Violators	60		_	29	
TOTAL	3464	13386		1410	4592

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	36	23	15	8
Buses	175	175	105	70
Carpools (1)	6746	1374	2741	611
Vanpools	0	20	0	10
Hybrid/Single Occ. (2)	34	12717	12	4295
Violators	60	_	29	_
TOTAL	7051	14309	2902	4994

RATES

HOV Lane occupancy rate	2.0 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	1.7 %	2.1 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ. mixed flow lanes.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 11/06/08 at the McKee Road I/C

Northbound - A.M.

Route 280/680 to Guadalupe Parkway

Typical data for 2008 (5)

PF	ΔΚ	PFR	IOD	(4)
Γ	-		IUU	

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	153	14	49	5
Buses	11	25	2	11
Carpools (1)	3288	506	1233	273
Vanpools _	4	9	1	4
Hybrid/Single Occ. (2)	181	16423	36	5633
Violators	14		10	
TOTAL	3651	16977	1331	5926

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	153	14	49	5
Buses	385	875	70	385
Carpools (1)	6666	1232	2502	670
Vanpools	40	90	10	40
Hybrid/Single Occ. (2)	181	16423	36	5633
Violators	14	_	10	_
TOTAL	7439	18634	2677	6733

RATES

HOV Lane occupancy rate	2.0 persons/veh	2.0 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	0.4 %	0.8 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ. mixed flow lanes.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 10/07/08 at the McKee Road I/C

Violation History

Guadalupe Parkway to Route 280/680 I/C

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu May 30, 2002	6:00 - 9:00 AM	339	3.5%
Thu Oct 18, 2001	6:00 - 9:00 AM	495	3.0%
Thu Jun 8, 2000	6:00 - 9:00 AM	485	11.8%
Wed Mar 24, 1999	6:00 - 9:00 AM	378	9.5%
Thu Apr 2, 1998	6:00 - 9:00 AM	436	6.7%
Wed Mar 5, 1997	6:30 - 9:00 AM	438	2.1%
Thu Oct 24, 1996	7:00 - 9:00 AM	550	0.4%
Wed Oct 18, 1995	7:00 - 9:00 AM	172	3.5%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu Nov 6, 2008	3:00 - 6:00 PM	3464	1.7%
Thu Dec 13, 2007	3:00 - 6:00 PM	3098	0.4%
Tue May 9, 2006	3:00 - 6:00 PM	2216	0.1%
Wed Sep 21, 2005	3:00 - 6:00 PM	2452	0.2%
Tue Nov 9, 2004	3:00 - 5:30 PM	1947	0.7%
Thu Apr 3, 2003	3:00 - 6:00 PM	1860	0.5%
Thu Jun 13, 2002	3:00 - 6:00 PM	2342	1.3%
Tue Mar 27, 2001	3:00 - 6:00 PM	2840	2.6%
Thu May 11, 2000	3:00 - 6:00 PM	3049	1.7%
Tue Dec 14, 1999	3:00 - 5:30 PM	2418	0.4%
Thu Sep 17, 1998	3:00 - 6:00 PM	3499	2.5%
Tue Sept 23, 1997	3:00 - 6:00 PM	2965	0.5%
Wed Oct 23, 1996	3:00 - 6:00 PM	3230	0.3%
Wed Apr 19, 1995	3:00 - 7:00 PM	3957	2.9%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Violation History

Route 280/680 I/C to Guadalupe Parkway

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue Oct 7, 2008	6:00 - 9:00 AM	3651	0.4%
Tue Dec 11, 2007	6:00 - 9:00 AM	3914	0.1%
Tue May 16, 2006	6:00 - 9:00 AM	3374	3.8%
Wed Mar 30, 2005	6:00 - 9:00 AM	4026	6.8%
Thu Dec 2, 2004	6:00 - 9:00 AM	3561	0.2%
Thu Jun 12, 2003	6:00 - 9:00 AM	3794	2.6%
Thu Apr 11, 2002	6:30 - 9:00 AM	3438	2.7%
Thu May 11, 2000	6:00 - 9:00 AM	4839	2.4%
Wed Apr 14, 1999	6:00 - 9:00 AM	4717	2.9%
Thu Dec 10, 1998	6:00 - 9:00 AM	4589	1.8%
Wed Sep 24, 1997	7:00 - 9:00 AM	2994	2.4%
Wed May 22, 1996	6:00 - 9:00 AM	5386	0.8%
Thu Nov 2, 1995	6:00 - 9:00 AM	5061	0.5%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu May 23, 2002	3:00 - 6:00 PM	1264	1.6%
Thu Apr 27, 2000	3:00 - 6:00 PM	1318	3.7%
Tue Dec 7, 1999	3:00 - 5:00 PM	1314	4.3%
Wed Nov 4, 1998	3:00 - 5:30 PM	1393	0.7%
Wed Apr 30, 1997	3:00 - 6:00 PM	2171	0.2%
Thu Nov 14, 1996	3:00 - 6:00 PM	1743	0.0%
Wed Oct 11, 1995	3:00 - 6:00 PM	1370	6.0%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Route 280/680 to Bernal Road

Typical data for 2008 (5)

PF	ΔK	PFR	IOD	(4)
	\neg	1 -11	IUU	

PEAK HOUR

3:00 - 6:00 PM

3:00 - 4:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	40	23	13
Buses	11	6	6	5
Carpools (1)	1905	1254	642	498
Vanpools	18	0	7	0
Hybrid/Single Occ. (2)	69	10614	15	3577
Violators	13		6	
TOTAL	2088	11914	699	4093

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	72	40	23	13
Buses	385	210	210	175
Carpools (1)	4207	2735	1435	1068
Vanpools	180	0	70	0
Hybrid/Single Occ. (2)	69	10614	15	3577
Violators	13		6	_
TOTAL	4926	13599	1759	4833

RATES

HOV Lane occupancy rate	2.4 persons/veh	2.5 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.4 persons/veh
Violation rate (3) (HOV Lane)	0.6 %	0.9 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ. mixed flow lanes.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 05/29/08 at the Hellyer Avenue I/C

Northbound - A.M.

Bernal Road to Route 280/680 I/C

Typical data for 2008 (5)

DE	۸K	PER		(4)
	AN	PER	IUU.	٠,

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	33	32	11
Buses	13	6	5	2
Carpools (1)	1443	496	637	251
Vanpools _	4	1	1	0
Hybrid/Single Occ. (2)	104	13327	48	4790
Violators	6		4	
TOTAL	1658	13863	727	5054

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	88	33	32	11
Buses	455	210	175	70
Carpools (1)	2900	1141	1280	578
Vanpools	40	10	10	0
Hybrid/Single Occ. (2)	104	13327	48	4790
Violators	6		4	_
TOTAL	3593	14721	1549	5449

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	0.4 %	0.6 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single occ mixed flow lanes.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 10/15/08 at the Hellyer Avenue I/C

Violation History

Route 280/680 I/C to Bernal Road

Southbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu Jun 6, 2002	6:00 - 9:00 AM	730	5.6%
Thu Apr 19, 2001	6:00 - 9:00 AM	746	5.4%
Wed Oct 4, 2000	7:00 - 9:00 AM	413	5.6%
Wed Nov 3, 1999	6:00 - 9:00 AM	660	0.9%
Thur May 6, 1998	6:00 - 9:00 AM	576	0.7%
Thu May 22, 1997	6:30 - 9:00 AM	473	6.1%
Thu Oct 17, 1996	7:00 - 9:00 AM	538	0.7%
Tue Oct 24, 1995	7:00 - 9:00 AM	538	6.5%

P.M. PEAK

Thu May 29, 2008	3:00 - 6:00 PM	2088	0.6%
Tue May 8, 2007	3:00 - 6:00 PM	1881	1.2%
Wed May 3, 2006	3:00 - 6:00 PM	2127	3.3%
Thu Mar 10, 2005	3:00 - 6:00 PM	2225	0.6%
Tue Nov 23, 2004	3:00 - 5:30 PM	1747	0.3%
Thu May 1, 2003	3:00 - 6:00 PM	2204	1.6%
Tue Mar 19, 2002	3:00 - 6:00 PM	1496	2.0%
Wed May 16, 2001	3:00 - 6:00 PM	1732	0.8%
Tue Sep 19, 2000	3:00 - 6:00 PM	1898	0.7%
Tue Mar 16, 1999	3:00 - 6:30 PM	702	4.6%
Wed Apr 22,1998	3:00 - 6:00 PM	1498	0.1%
Tue Oct 7, 1997	3:00 - 6:00 PM	1843	0.1%
Wed Dec 11,1996	3:00 - 5:30 PM	1426	3.6%
Wed May 3, 1995	3:00 - 7:00 PM	2181	11.0%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

⁽c) Data was not collected in 2008 for off-peak direction

Violation History

Bernal Road to Route 280/680 I/C

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Wed Oct 15, 2008	6:00 - 9:00 AM	1658	0.4%
Tue Apr 10, 2007	6:00 - 9:00 AM	1575	0.6%
Tue Apr 18, 2006	6:00 - 9:00 AM	2019	2.2%
Tue Apr 19, 2005	6:00 - 9:00 AM	2366	0.8%
Tue Dec 14, 2004	6:00 - 9:00 AM	1668	1.3%
Tue Jun 3, 2003	6:00 - 9:00 AM	2620	1.0%
Thu May 16, 2002	6:00 - 9:00 AM	1859	2.7%
Tue Apr 3, 2001	6:00 - 9:00 AM	2258	3.5%
Thu Nov 30, 2000	7:00 - 9:00 AM	1503	2.3%
Tue Dec 7, 1999	6:30 - 9:00 AM	2550	4.9%
Tue Dec 8, 1998	6:00 - 9:00 AM	2663	4.8%
Wed May 21, 1997	6:30 - 9:00 AM	1932	0.9%
Thu Jun 6, 1996	6:00 - 9:00 AM	2225	0.2%
Tue Apr 18, 1995	6:00 - 9:00 AM	1614	0.9%

PERIOD

TOTAL HOVL

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Wed Mar 27, 2002	3:00 - 6:00 PM	1156	3.1%
Tue May 15, 2001	3:00 - 6:00 PM	1155	5.4%
Wed Apr 5, 2000	3:00 - 6:00 PM	1169	5.9%
Wed May 26, 1999	3:00 - 6:00 PM	1255	5.1%
Thu Apr 23, 1998	3:00 - 6:00 PM	995	4.6%
Wed Mar 12, 1997	3:00 - 6:00 PM	803	0.4%
Wed Dec 4, 1996	3:00 - 5:30 PM	777	3.3%
Thu Oct 19, 1995	3:00 - 6:00 PM	794	2.3%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Bernal Road to Cochrane Road

Typical data for 2008 (5)

			_	~ ~	(4)
PF4	١ĸ	PΗ	·KI		(-)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV L	Mixed Flow ane Lanes
Motorcycles	74	33	38	20
Buses	13	15	4	2
Carpools (1)	2122	668	761	194
Vanpools	6	0	2	0
Hybrid/Single Occ. (2)	132	12199	53	4303
Violators	10		2	
TOTAL	2357	12915	860	4519

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	74	33	38	20
Buses	455	525	140	70
Carpools (1)	4556	1421	1616	408
Vanpools	60	0	20	0
Hybrid/Single Occ. (2)	132	12199	53	4303
Violators	10	_	2	_
TOTAL	5287	14178	1869	4801

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	0.4 %	0.2 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single occ mixed flow lanes.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/29/08 at Coyote Creek Golf Drive I/C

Northbound - A.M.

Cochrane Road to Benal Road

Typical data for 2008 (5)

DF	ΛK	PFR		(4)
ГС	\boldsymbol{H}	FEN	IUU	

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	91	23	36	6
Buses	13	6	3	4
Carpools (1)	2144	338	752	128
Vanpools	7	1	4	0
Hybrid/Single Occ. (2)	115	10146	35	3384
Violators	24		4	
TOTAL	2394	10514	834	3522

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	91	23	36	6
Buses	455	210	105	140
Carpools (1)	4396	727	1556	268
Vanpools	70	10	40	0
Hybrid/Single Occ. (2)	115	10146	35	3384
Violators	24		4	
TOTAL	5151	11116	1776	3798

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	1.0 %	0.5 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single occ. mixed flow lanes.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 06/04/08 at Coyote Creek Golf Drive I/C

Violation History

Bernal Road to Cochrane Road

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	TORED VOLUME	
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-

TOTAL HOVL

PERIOD

P.M. PEAK

Wed Oct 29, 2008	3:00 - 6:00 PM	2357	0.4%
Tue May 15, 2007	3:00 - 6:00 PM	2177	0.4%
Wed Apr 19, 2006	3:00 - 6:00 PM	1652	1.2%
Tue Sep 13, 2005	3:00 - 6:00 PM	2102	0.1%
Wed Nov 3, 2004	3:00 - 5:30 PM	1493	1.5%
Wed May 21, 2003	3:00 - 6:00 PM	1775	1.1%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak period

Violation History

Cochrane Road to Bernal Road

Northbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Wed Jun 4, 2008	6:00 - 9:00 AM	2394	1.0%
	Thu Dec 6, 2007	6:00 - 9:00 AM	2099	0.3%
	Tue Dec 19, 2006	6:00 - 9:00 AM	2799	1.0%
	Wed Dec 14, 2005	6:00 - 9:00 AM	1827	1.4%
	Tue Nov 9, 2004	6:00 - 9:00 AM	2120	0.2%
	Tue Oct 28, 2003	6:00 - 9:00 AM	1720	0.0%
P.M. PEAK	Year 2008	-	-	
	Year 2007	-	-	-
	Year 2006	-	-	-
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

- (b) Evening period of operation from 3:00 to 7:00 PM.
- (c) Data was not collected in 2008 for off-peak direction

Westbound - A.M.

Route 280/237 I/C to Mathilda Avenue

Typical data for 2008 (5)

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	F	IOV Lane	Mixed Flow Lanes
Motorcycles	26	1		8	0
Buses	13	8		4	1
Carpools (1)	1826	248		746	118
Vanpools	5	5		2	3
Hybrid/Single Occ. (2)	164	10467		68	3779
Violators	12			1	
TOTAL	2046	10729		829	3901

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	26	1	8	0
Buses	455	280	140	35
Carpools (1)	3709	563	1513	283
Vanpools	50	50	20	30
Hybrid/Single Occ. (2)	164	10467	68	3779
Violators	12		1	_
TOTAL	4416	11361	1750	4127

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	0.6 %	0.1 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 12/17/08 at the Zanker Road I/C

Westbound - P.M.

Route 880/237 I/C to Mathilda Avenue

Typical data for 2008 (5)

DEV	K	DE	RΙ	\bigcirc	D	(4)
$\Gamma \square H$	1	ГС	\mathbf{n}	v	u	

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	47	19	24	3
Buses	6	10	4	1
Carpools (1)	923	593	520	160
Vanpools	3	13	3	5
Hybrid/Single Occ. (2)	87	9463	50	3560
Violators	6		3	
TOTAL	1072	10098	604	3729

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	47	19	24	3
Buses	210	350	140	35
Carpools (1)	1897	1309	1071	356
Vanpools	30	130	30	50
Hybrid/Single Occ. (2)	87	9463	50	3560
Violators	6		3	
TOTAL	2277	11271	1318	4004

RATES

HOV Lane occupancy rate	2.1 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	0.6 %	0.5 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 05/28/08 at the Zanker Road I/C

Eastbound - P.M.

Mathilda Avenue to Route 237/880 I/C

Typical data for 2008 (5)

PF	ΔK	PFR	(4)

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV	Lane	Mixed Flow Lanes
Motorcycles	31	10		5	5
Buses	10	12	(6	3
Carpools (1)	1477	397	5	80	125
Vanpools	5	1		1	1
Hybrid/Single Occ. (2)	131	11087	4	ŀ6	3769
Violators	16	_		6	
TOTAL	1670	11507	5	72	3903

PERSONS	HOV Lane	Mixed Flow Lanes	HOV	Lane	Mixed Flow Lanes
Motorcycles	31	10		5	5
Buses	350	420	2	10	105
Carpools (1)	3030	829	10	49	256
Vanpools	50	10	1	0	10
Hybrid/Single Occ. (2)	131	11087	4	-6	3769
Violators	16	_		ô	_
TOTAL	3608	12356	13	26	4145

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	1.0 %	1.0 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 04/02/08 at the Zanker Road I/C

Violation History

Route 880/237 I/C to Mathilda Avenue

Westbound

VIOLATION

_			
Δ	М	PE	ΔΚ
$\boldsymbol{-}$			\neg ı\

DATE	MONITORED	VOLUME	RATE
Wed Dec 17, 2008	6:00 - 9:00 AM	2046	0.6%
Tue Sep 18, 2007	6:00 - 9:00 AM	2092	0.1%
Wed Apr 26, 2006	6:00 - 9:00 AM	1631	0.3%
Wed Nov 2, 2005	6:00 - 9:00 AM	1666	3.1%
Thu Nov 18, 2004	6:00 - 9:00 AM	1407	0.9%
Thu May 29, 2003	6:00 - 9:00 AM	1644	0.0%
Thu May 2, 2002	6:00 - 9:00 AM	1577	3.7%
Thu May 3, 2001	6:00 - 9:00 AM	1916	5.3%
Wed Nov 15, 2000	6:00 - 9:00 AM	2055	2.7%
Tue Nov 9, 1999	6:30 - 9:00 AM	1917	1.9%
Tue Sep 29, 1998	7:00 - 9:00 AM	1770	3.3%
Tue May 13, 1997	6:30 - 9:00 AM	2015	2.8%
Thu May 30,1996	6:00 - 9:00 AM	3274	0.5%

PERIOD

TOTAL HOVL

P.M. PEAK

Wed May 28, 2008	3:00 - 6:00 PM	1072	0.6%
Tue Jun 12, 2007	3:00 - 6:00 PM	1641	8.2%
Tue Mar 28, 2006	3:00 - 6:00 PM	1008	4.3%
Tue Oct 25, 2005	3:00 - 6:00 PM	908	2.1%
Thu Dec 9, 2004	3:00 - 5:15 PM	493	10.8%
Thu Oct 9, 2003	3:00 - 6:00 PM	698	5.6%
Wed May 15, 2002	3:00 - 6:00 PM	773	2.2%
Wed May 30, 2001	3:00 - 6:00 PM	1102	3.1%
Wed Sep 13, 2000	3:00 - 6:00 PM	1155	2.5%
Wed Mar 3, 1999	3:00 - 7:00 PM	1260	0.6%
Tue Sep 29, 1998	3:00 - 6:00 PM	1658	2.8%
Tue Oct 14, 1997	3:00 - 6:00 PM	1866	0.8%
Wed Jun 12,1996	3:00 - 6:00 PM	1593	0.9%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

Violation History

Mathilda Avenue to Route 880/237 I/C

Eastbound

	DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
A.M. PEAK	Year 2008	-	-	-
	Thu Nov 29, 2007	6:00 - 9:00 AM	741	0.4%
	Tue May 9, 2006	6:00 - 9:00 AM	710	11.1%
	Year 2005	-	-	-
	Year 2004	-	-	-
	Year 2003	-	-	-
	Thu Oct 31, 2002	7:00 - 9:00 AM	561	12.1%
	Thu Mar 29, 2001	6:00 - 9:00 AM	759	15.0%
	Thu May 25, 2000	6:00 - 9:00 AM	536	5.8%
	Thu Oct 14, 1999	6:00 - 9:00 AM	769	11.4%
	Thu Oct 8, 1998	7:00 - 9:00 AM	750	3.2%
	Wed Oct 29, 1997	6:30 - 9:00 AM	723	0.1%
	Thu Nov 14, 1996	6:30 - 9:00 AM	845	7.5%
	Wad Amr 2 2000	2.00 C.00 DM	4070	4.00/
P.M. PEAK	Wed Apr 2, 2008	3:00 - 6:00 PM	1670	1.0%
	Wed May 23, 2007	3:00 - 6:00 PM	2433	0.1%
	Thu May 11, 2006	3:00 - 6:00 PM	1671	4.2%
	Thu Oct 6, 2005	3:00 - 6:00 PM	1746	13.3%
	Wed Dec 1, 2004	3:00 - 5:00 PM	1324	0.8%
	Tue Oct 14, 2003	3:00 - 6:00 PM	1296	0.9%
	Wed May 1, 2002	3:00 - 6:00 PM	1396	1.9%
	Thu May 3, 2001	3:00 - 6:00 PM	1255	2.1%
	Tue Mar 21, 2000	4:00 - 7:00 PM	2181	0.4%
	Thu Nov 18, 1999	3:00 - 6:00 PM	2535	3.0%
	Thu Oct 15, 1998	3:00 - 6:00 PM	2418	5.0%
	Tue Oct 28, 1997	3:00 - 6:00 PM	2835	2.7%
	Thu Oct 17, 1996	3:00 - 6:00 PM	3682	0.3%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - P.M.

Magdalena Avenue to Leland Avenue

Typical data for 2008 (5)

DE	۸K	PFR	(4)

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV	Lane	Mixed Flow Lanes
Motorcycles	19	2		5	1
Buses	12	18	;	3	11
Carpools (1)	2469	688	92	20	219
Vanpools	6	1		4	0
Hybrid/Single Occ. (2)	49	15923	3	36	5521
Violators	51		2	24	
TOTAL	2606	16632	99	92	5752

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	19	2	5	1
Buses	420	630	105	385
Carpools (1)	5052	1444	1908	464
Vanpools	60	10	40	0
Hybrid/Single Occ. (2)	49	15923	36	5521
Violators	51	_	24	_
TOTAL	5651	18009	2118	6371

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.0 %	2.4 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 12/04/08 at the Wolfe Road I/C

Northbound - A.M.

Leland Avenue to Magdalena Avenue

Typical data for 2008 (5)

PF/	١K	PF	RI	\mathbf{O}	ח	(4)
Γ	11	Γ		$\mathbf{\omega}$	_	

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	61	35	17	1
Buses	9	5	4	1
Carpools (1)	1590	397	641	155
Vanpools _	13	0	6	0
Hybrid/Single Occ. (2)	83	11061	31	4057
Violators	16		1	
TOTAL	1772	11498	700	4214

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	61	35	17	1
Buses	315	175	140	35
Carpools (1)	3331	912	1338	356
Vanpools	130	0	60	0
Hybrid/Single Occ. (2)	83	11061	31	4057
Violators	16		1	
TOTAL	3936	12183	1587	4449

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	0.9 %	0.1 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 05/29/08 at the Wolfe Road I/C

Violation History

Magdalena Avenue to Leland Avenue

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu Apr 18, 2002	6:30 - 9:00 AM	372	4.6%
Thu Apr 5, 2001	6:00 - 9:00 AM	524	2.7%
Thu Apr 13, 2000	6:00 - 9:00 AM	474	9.3%
Tue Apr 20, 1999	6:00 - 9:00 AM	608	0.3%
Thu Jun 4, 1998	6:00 - 9:00 AM	781	0.1%
Wed Oct 22, 1997	7:00 - 9:00 AM	592	0.0%
Wed Oct 9, 1996	7:00 - 9:00 AM	1087	1.4%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu Dec 4, 2008	3:00 - 6:00 PM	2606	2.0%
Tue Apr 10, 2007	3:00 - 6:00 PM	2404	0.0%
Thu Apr 27, 2006	3:00 - 6:00 PM	1569	3.5%
Tue Dec 13, 2005	3:00 - 6:00 PM	2469	0.0%
Tue Nov 2, 2004	3:00 - 5:30 PM	1817	2.3%
Thu Jun 12, 2003	3:00 - 5:30 PM	1756	1.0%
Thu Sep 19, 2002	3:00 - 6:00 PM	1933	0.6%
Thu Oct 11, 2001	3:00 - 6:00 PM	2221	1.0%
Wed Oct 11, 2000	3:00 - 6:00 PM	2325	5.0%
Wed Apr 21, 1999	3:00 - 6:00 PM	2058	4.9%
Tue Dec 8, 1998	3:00 - 6:00 PM	2236	1.0%
Tue Oct 21, 1997	3:00 - 6:00 PM	2050	2.8%
Tue Jun 11, 1996	3:00 - 6:00 PM	1716	4.3%

- **NOTES:** (a) Morning period of operation from 5:00 to 9:00 AM.
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Violation History

Leland Avenue to Magdalena Avenue

Northbound

VIOLATION

TOTAL HOVL

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Thu May 29, 2008	6:00 - 9:00 AM	1772	0.9%
Thu Dec 5, 2007	6:00 - 9:00 AM	2105	0.7%
Thu Dec 14, 2006	6:00 - 9:00 AM	1843	0.1%
Tue Mar 8, 2005	6:00 - 9:00 AM	1602	0.8%
Thu Oct 7, 2004	6:00 - 9:00 AM	2213	2.4%
Thu Jun 5, 2003	6:00 - 9:00 AM	1558	7.4%
Tue May 21, 2002	6:00 - 9:00 AM	1355	5.4%
Tue Nov 6, 2001	6:00 - 9:00 AM	1253	1.6%
Wed Mar 29, 2000	6:00 - 9:00 AM	2086	1.7%
Thu Nov 4, 1999	6:30 - 9:00 AM	1884	0.3%
Wed Dec 9, 1998	6:00 - 9:00 AM	2235	3.7%
Wed Apr 23, 1997	6:00 - 9:00 AM	1851	0.10%
Tue Jun 11, 1996	6:00 - 9:00 AM	1762	1.40%

PERIOD

P.M. PEAK

Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Tue May 28, 2002	3:00 - 6:00 PM	1081	1.5%
Wed Apr 4, 2001	3:00 - 6:00 PM	1160	0.9%
Thu Apr 13, 2000	3:00 - 6:00 PM	1106	5.4%
Tue Apr 20, 1999	3:00 - 6:00 PM	938	0.2%
Tue Sep 15, 1998	3:00 - 6:00 PM	955	5.3%
Wed, Apr 23, 1997	3:00 - 6:00 PM	1975	0.5%
Thu Dec 12, 1996	3:00 - 5:30 PM	1205	4.2%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

⁽c) Data was not collected in 2008 for off-peak direction

SAN FRANCISCO-80

HOV RAMP

Sterling Street on-ramp to SFOBB

Eastbound-P.M.

Typical data for 2008

PEAK PERIOD (4)

3:30 - 7:00 PM

PEAK HOUR

4:00 - 5:00 PM

VEHICLES	HOV Lane	SOV Lane		HOV Lane	SOV Lane
Motorcycles	127	_		28	_
Buses	24	_		12	_
Carpool (1)	1332	_	_	484	
2 - seaters (2)	528	_	_	199	<u> </u>
Hybrid	279	_	_	73	
Vanpools	80	_	_	50	<u> </u>
Trucks	48	_	_	19	<u> </u>
Violators	743	_	_	204	
TOTAL	3161	N/A	_	1069	N/A
PERSONS	HOV Lane	SOV Lane		HOV Lane	SOV Lane
Motorcycles	127	_	_	28	
Buses	840	_		420	
Carpool (1)	4129	_	_	1500	<u> </u>
2 - seaters (2)	1056	_	_	398	<u> </u>
Hybrid	279	_	_	73	<u> </u>
Vanpools	800	_	_	500	
Trucks	48	_	_	19	<u> </u>
Violators	1063	_	_	294	
TOTAL	8342	N/A		3232	N/A
RATES					
HOV Lane occupancy rate	2.6	persons/veh		3.0	persons/veh
Violation rate (3) (HOV Lane)	23.5	%	_	19.1	%

NOTES: (1) 3 or more persons per vehicle.

- (2) 2 seater vehicles with 2 persons.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane

- (4) HOV lane in operation from 3:30 to 7:00 PM.
- (5) Observations conducted 10/1/08 at the Sterling Street on-ramp

SAN FRANCISCO-80 HOV RAMP

Violation History Eastbound

Sterling Street On-Ramp to SFOBB

P.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Wed Oct 1, 2008	3:30 - 7:00 PM	3161	23.5%
Thu Sep 20, 2007	3:30 - 7:00 PM	3223	10.6%
Tue Sep 12, 2006	3:30 - 7:00 PM	3411	23.0%
Tue Mar 8, 2005	3:30 - 7:00 PM	3391	24.4%
Tue Oct 12, 2004	3:30 - 7:00 PM	3161	20.2%
Wed Apr 30, 2003	3:30 - 7:00 PM	2185	22.6%
Tue Sep 17, 2002	3:30 - 7:00 PM	2713	15.1%
Wed Oct 10, 2001	3:30 - 7:00 PM	3133	10.4%
Thu Oct 19, 2000	3:30 - 7:00 PM	3327	6.5%
Thu Oct 14, 1999	3:30 - 7:00 PM	3566	27.5%
Thu Dec 3, 1998	3:30 - 7:00 PM	3276	29.0%
Wed Jun 11, 1997	3:30 - 7:00 PM	2810	12.4%
Tue Apr 23, 1996	3:30 - 7:00 PM	1891	22.2%
Wed Mar 29, 1995	3:30 - 7:00 PM	2692	52.6%
Tue May 17, 1994	4:00 - 6:00 PM	787	28.3%
Wed Oct 13, 1993	4:00 - 6:00 PM	1023	34.6%
Thu Jun 4, 1992	4:00 - 6:00 PM	1051	35.0%
Tue Dec 3, 1991	4:00 - 6:00 PM	1427	28.0%
Thu Nov 15, 1990	4:00 - 6:00 PM	701	58.3%
Tue Apr 18, 1989	4:30 - 6:00 PM	821	17.4%
Tue Apr 26, 1988	4:00 - 6:00 PM	1599	69.2%
Tue Oct 20, 1987	4:00 - 6:00 PM	1103	53.3%
Tue Apr 21, 1987	4:00 - 6:00 PM	960	40.1%

NOTES: Evening period of operation from 3:30 to 7:00 P.M.

Southbound - A.M.

Whipple Avenue to SM/SCL County Line

Typical data for 2008 (5)

DE	۸K	PER		(4)
	AN	PER	IUU.	٠,

PEAK HOUR

6:00 - 9:00 AM

7:00 - 8:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	69	21		28	4
Buses	34	13	_	11	7
Carpools (1)	1008	900	_	391	371
Vanpools	9	13	_	4	4
Hybrid/Single Occ. (2)	184	14756		78	5423
Violators	18			0	_
TOTAL	1322	15703	-	512	5809

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	69	21	28	4
Buses	1190	455	385	245
Carpools (1)	2119	1979	829	823
Vanpools	90	130	40	40
Hybrid/Single Occ. (2)	184	14756	78	5423
Violators	18	_	0	_
TOTAL	3670	17341	1360	6535

RATES

HOV Lane occupancy rate	2.8 persons/veh	2.7 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	1.4 %	0.0 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single occuppancy mixed flow lanes only.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 04/15/08 at the Woodside Road I/C

Southbound - P.M.

Whipple Avenue to SM/SCL County Line

Typical data for 2008 (5)

PE	ΔK	PER	COL	(4)

PEAK HOUR

3:00 - 6:00 PM

5:00 - 6:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	83	39	25	10
Buses	0	59	0	10
Carpools (1)	2520	1237	940	321
Vanpools	75	26	30	3
Hybrid/Single Occ. (2)	88	14811	29	5024
Violators	22		8	
TOTAL	2788	16172	1032	5368

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	83	39	25	10
Buses	0	2065	0	350
Carpools (1)	5187	2653	1932	681
Vanpools	750	260	300	30
Hybrid/Single Occ. (2)	88	14811	29	5024
Violators	22		8	_
TOTAL	6130	19828	2294	6095

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.4 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	0.8 %	0.8 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane} \times 100\%$

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 10/02/08 at the Woodside Road I/C

Northbound - A.M.

SM/SCL County Line to Whipple Avenue

Typical data for 2008 (5)

PF	ΔΚ	PFR	IOD	(4)
Γ	-		IUU	

PEAK HOUR

6:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	28	19		7	8
Buses	12	25	_	9	6
Carpools (1)	1925	209	_	829	102
Vanpools	5	4	_	3	0
Hybrid/Single Occ. (2)	31	11699		17	4230
Violators	75		_	36	
TOTAL	2076	11956	_	901	4346

PERSONS	HOV Lane	Mixed Flow Lanes	НС)V Lane	Mixed Flow Lanes
Motorcycles	28	19		7	8
Buses	420	875		315	210
Carpools (1)	3906	447		1683	223
Vanpools	50	40		30	0
Hybrid/Single Occ. (2)	31	11699		17	4230
Violators	75	_		36	_
TOTAL	4510	13080		2088	4671

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.3 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	3.6 %	4.0 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 5:00 to 9:00 A.M.
- (5) Observations conducted 10/21/08 at the Woodside Road I/C

Northbound - P.M.

SM/SCL County Line to Whipple Avenue

Typical data for 2008 (5)

DE	۸K	PER		(4)
	AN	PER	IUU.	٠,

PEAK HOUR

3:00 - 6:00 PM

4:00 - 5:00 PM

VEHICLES	HOV Lane	Mixed Flow Lanes	 HOV Lane	Mixed Flow Lanes
Motorcycles	39	14	19	7
Buses	18	35	 5	14
Carpools (1)	1730	491	 557	188
Vanpools	10	0	 3	0
Hybrid/Single Occ. (2)	109	11118	 55	4083
Violators	47		4	_
TOTAL	1953	11658	643	4292

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	39	14	19	7
Buses	630	1225	175	490
Carpools (1)	3544	1030	1161	401
Vanpools	100	0	30	0
Hybrid/Single Occ. (2)	109	11118	55	4083
Violators	47		4	_
TOTAL	4469	13387	1444	4981

RATES

HOV Lane occupancy rate	2.3 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.2 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.4 %	0.6 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV Lane only/Single Occupancy mixed flow lanes only.
- (3) Violation rate = no. of violators in HOV lane x 100%

- (4) HOV lane in operation from 3:00 to 7:00 P.M.
- (5) Observations conducted 12/03/08 at the Woodside Road I/C

Violation History

Whipple Avenue to the SM/SCL County Line

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue Apr 15, 2008	6:00 - 9:00 AM	1322	1.4%
Thu Dec 13, 2007	6:00 - 9:00 AM	1972	0.6%
Wed May 31, 2006	6:00 - 9:00 AM	1238	0.8%
Thu Mar 10, 2005	6:00 - 9:00 AM	1177	1.4%
Wed Dec 15, 2004	7:00 - 9:00 AM	1355	0.1%
Wed Apr 9, 2003	6:00 - 9:00 AM	1701	0.6%
Tue Mar 26, 2002	6:00 - 9:00 AM	1549	3.5%
Thu Mar 22, 2001	6:00 - 9:00 AM	1746	2.2%
Tue Apr 25, 2000	6:00 - 9:00 AM	1849	7.0%
Thu Dec 2, 1999	6:45 - 9:00 AM	1915	5.2%
Tue Mar 10, 1998	6:00 - 9:00 AM	2711	0.8%
Tue Sept 23, 1997	7:00 - 9:00 AM	1761	0.7%
Wed Mar 27, 1996	6:00 - 9:00 AM	1681	4.6%

PERIOD

TOTAL HOVL

P.M. PEAK

Thu Oct 2, 2008	3:00 - 6:00 PM	2788	0.8%
Thu May 24, 2007	3:00 - 6:00 PM	2070	3.8%
Tue Jun 13, 2006	3:00 - 6:00 PM	1754	0.5%
Wed Sep 28, 2005	3:00 - 6:00 PM	1568	1.5%
Tue Oct 26, 2004	3:00 - 6:00 PM	1296	1.5%
Wed May 14, 2003	3:00 - 6:00 PM	1488	2.5%
Wed Oct 2, 2002	3:00 - 6:00 PM	1895	3.2%
Thu Nov 8, 2001	3:00 - 5:30 PM	1685	7.0%
Thu Oct 12, 2000	3:00 - 6:00 PM	2245	3.3%
Wed Dec 8, 1999	3:00 - 5:15 PM	1683	0.5%
Thu Dec 10, 1998	3:00 - 6:00 PM	2537	1.6%
Wed Nov 5, 1997	3:00 - 6:00 PM	2514	0.6%
Wed Mar 27,1996	3:00 - 6:00 PM	2836	1.9%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

⁽b) Evening period of operation from 3:00 to 7:00 PM.

Violation History

SM/SCL County Line to Whipple Avenue

Northbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue Oct 21, 2008	6:00 - 9:00 AM	2076	3.6%
Tue Mar 13, 2007	6:00 - 9:00 AM	2478	0.8%
Thu Oct 26, 2006	6:00 - 9:00 AM	1573	0.2%
Wed Apr 6, 2005	6:00 - 9:00 AM	1409	0.5%
Wed Dec 1, 2004	6:00 - 9:00 AM	1337	0.7%
Thu Oct 9, 2003	7:00 - 9:00 AM	1031	1.5%
Tue Apr 9, 2002	6:45 - 9:00 AM	865	5.7%
Wed Oct 31, 2001	6:00 - 9:00 AM	1662	2.1%
Thu Oct 12, 2000	6:00 - 9:00 AM	2964	4.7%
Thu Apr 29, 1999	6:00 - 9:00 AM	2088	0.5%
Tue Oct 27, 1998	6:00 - 9:00 AM	1873	2.1%
Thu Sept 25, 1997	7:00 - 9:00 AM	1348	0.1%
Wed Jun 5, 1996	6:00 - 9:00 AM	1799	3.3%

PERIOD

TOTAL HOVL

P.M. PEAK

Wed Dec 3, 2008	3:00 - 6:00 PM	1953	2.4%
Thu Nov 29, 2007	3:00 - 6:00 PM	2508	7.3%
Thu Jun 1, 2006	3:00 - 6:00 PM	2343	0.0%
Tue Oct 4, 2005	3:00 - 6:00 PM	2025	0.4%
Thu Oct 28, 2004	3:00 - 6:00 PM	1929	0.1%
Tue Apr 8, 2003	3:00 - 6:00 PM	2327	2.0%
Wed Jun 5, 2002	3:00 - 6:00 PM	1969	3.4%
Wed Nov 14, 2001	3:00 - 5:30 PM	1675	0.2%
Tue Sep 12, 2000	3:00 - 6:00 PM	2329	14.3%
Tue Oct 26, 1999	3:00 - 6:00 PM	2987	8.5%
Wed Dec 9, 1998	3:00 - 6:00 PM	2670	6.6%
Tue Apr 29, 1997	3:00 - 6:00 PM	2616	0.9%
Thu Sep 26, 1996	3:00 - 6:00 PM	2619	5.8%

NOTES: (a) Morning period of operation from 5:00 to 9:00 AM.

 $(b) \ \ \textit{Evening period of operation from 3:00 to 7:00 PM}.$

SOLANO-80

Eastbound - P.M.

360

266

2907

4320

PEAK HOUR

Carquinez Bridge Toll Plaza

Typical data for 2008

(0)

	3:00 to 7	7:00 P.M.		5:00 to 6	6:00 P.M.
VEHICLES	HOV Lane	Mixed Flow Lanes		HOV Lane	Mixed Flow Lanes
Motorcycles	110	_		29	_
Buses (4)	20	_		6	
Carpools (1)	1978	_	_	541	
2 - seaters (2)	654	_		169	
Hybrid	116	_		27	
Vanpools	116	_	_	36	
Violators (HOV only)	465	_	_	154	
TOTAL	3459	14982	(7)	962	3927
PERSONS	HOV Lane	Mixed Flow Lanes	_	HOV Lane	Mixed Flow Lanes
Motorcycles	110	_		29	_
Buses (4)	700	_	_	210	
Carpools (1)	6132	_	_	1677	
2 - seaters (2)	1308	_		338	
Hybrid	116	_		27	_

PEAK PERIOD (5)

RATES

HOV Lane occupancy rate	3.0 persons/veh	3.0 persons/veh
Mixed Flow Occupancy Rate	1.1 persons/veh	1.1 persons/veh
Violation rate (3) (HOV Lane)	13.4 %	16.0 %

16480

(7)

NOTES: (1) 3 or more persons per vehicle.

1160

792

10318

- (2) 2 seater vehicles with 2 persons.
- (3) Violation rate = no. of violators in HOV lane x 100% Total no. of vehicles in HOV lane
- (4) Assumed PM bus occupancy = 35 persons/vehicle.
- (5) HOV lane in operation from 3:00 to 7:00 P.M.
- (6) Observations conducted 4/2/08 at the Carquinez Bridge Toll Plaza.
- (7) Data from Toll Plaza vehicle Registration Report.

Vanpools

TOTAL

Violators (HOV only)

SOLANO-80

Violation History

Carquinez Bridge Toll Plaza

Eastbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Year 2008	-	-	-
Year 2007	-	-	-
Year 2006	-	-	-
Year 2005	-	-	-
Year 2004	-	-	-
Year 2003	-	-	-
Thu Nov 14, 2002	5:00 - 10:00 AM	706	10.1%
Thu May 31, 2001	5:00 - 10:00 AM	804	24.5%
Thu Nov 16, 2000	5:00 - 10:00 AM	773	34.4%
Wed Mar 10, 1999	6:00 - 10:00 AM	664	26.2%

PERIOD

TOTAL HOVL

P.M. PEAK

Wed Apr 2, 2008	3:00 - 7:00 PM	3459	13.4%
Tue Sep 18, 2007	3:00 - 7:00 PM	3452	10.1%
Thu Sep 14, 2006	3:00 - 7:00 PM	3285	11.0%
Wed Sep 14, 2005	3:00 - 7:00 PM	3523	6.0%
Wed Oct 13, 2004	3:00 - 7:00 PM	3342	9.4%
Thu May 15, 2003	3:00 - 7:00 PM	3360	8.8%
Thu Sep 26, 2002	3:00 - 7:00 PM	3429	9.5%
Thu Mar 29, 2001	3:00 - 7:00 PM	3493	1.2%
Tue Oct 17, 2000	3:00 - 7:00 PM	3373	9.5%
Wed Sep 29, 1999	3:00 - 7:00 PM	2945	12.9%

- **NOTES:** (a) Morning period of operation from 5:00 to 10:00 AM
 - (b) Evening period of operation from 3:00 to 7:00 PM.
 - (c) Data was not collected in 2008 for off-peak direction

Southbound - A.M.

Steele Lane to Wilfred Avenue

Typical data for 2008 (5)

PF	ΔK	PFR	IOD	(4)
	\neg	1 -11	IUU	

PEAK HOUR

7:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	57	12	32	2
Buses	7	10	3	5
Carpools (1)	585	239	301	121
Vanpools _	2	8	1	8
Hybrid/Single Occ. (2)	19	4769	7	2693
Violators	29		16	
TOTAL	699	5038	360	2829

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	57	12	32	2
Buses	245	350	105	175
Carpools (1)	1184	528	603	263
Vanpools	20	80	10	80
Hybrid/Single Occ. (2)	19	4769	7	2693
Violators	29		16	_
TOTAL	1554	5739	773	3213

RATES

HOV Lane occupancy rate	2.2 persons/veh	2.1 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.2 persons/veh
Violation rate (3) (HOV Lane)	4.1 %	4.4 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes only.
- (3) Violation rate = $\frac{\text{no. of violators in HOV lane } \times 100\%}{\text{no. of violators in HOV lane}}$

- (4) HOV lane in operation from 7:00 to 9:00 A.M.
- (5) Observations conducted 04/29/08 at South of Hearn Avenue Interchange.

Southbound - P.M.

Steele Lane to Wilfred Avenue

Typical data for 2008 (5)

PEAK HOUR

	3:00 - 6	6:30 PM	5:0	0 - 6:00 PM
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lan	Mixed Flow e Lanes
Motorcycles	61	16	19	9
Buses	16	18	2	1
Carpools (1)	2091	1030	600	354
Vanpools	6	1	2	0
Hybrid/Single Occ. (2)	52	11393	12	3414
Violators	50		9	_
TOTAL	2276	12458	644	3778
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lan	Mixed Flow e Lanes
PERSONS Motorcycles	HOV Lane		HOV Lan	
		Lanes		e Lanes
Motorcycles	61	Lanes 16	19	e Lanes
Motorcycles Buses	61 560	16 630	19 70	e Lanes 9 35
Motorcycles Buses Carpools ⁽¹⁾	61 560 4404	16 630 2181	19 70 1292	9 35 755
Motorcycles Buses Carpools (1) Vanpools	61 560 4404 60	16 630 2181 10	19 70 1292 20	9 35 755 0
Motorcycles Buses Carpools (1) Vanpools Hybrid/Single Occ. (2)	61 560 4404 60 52	16 630 2181 10	19 70 1292 20 12	9 35 755 0

PEAK PERIOD (4)

RATES

HOV Lane occupancy rate	2.3 persons/veh	2.2 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	2.2 %	1.4 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 6:30 P.M.
- (5) Observations conducted 04/16/08 at South of Hearn Avenue Interchange.

Northbound - A.M.

Wilfred Avenue to Steele Lane

Typical data for 2008 (5)

Mixed Flow

PEAK PERIOD (4)	
-----------------	--

Mixed Flow

PEAK HOUR

7:00 - 9:00 AM

8:00 - 9:00 AM

VEHICLES	HOV Lane	Lanes	HOV Lane	Lanes
Motorcycles	42	1	19	1
Buses	8	35	5	23
Carpools (1)	679	186	403	84
Vanpools	4	0	2	0
Hybrid/Single Occ. (2)	31	5866	19	3120
Violators	26		13	
TOTAL	790	6088	461	3228
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes

PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flo Lanes
Motorcycles	42	1	19	1
Buses	280	1225	175	805
Carpools (1)	1402	381	827	169
Vanpools	40	0	20	0
Hybrid/Single Occ. (2)	31	5866	19	3120
Violators	26		13	_
TOTAL	1821	7473	1073	4095

RATES

HOV Lane occupancy rate	2.3 persons/veh	2.3 persons/veh
Mixed Flow occupancy rate	1.2 persons/veh	1.3 persons/veh
Overall occupancy (incl. buses)	1.4 persons/veh	1.4 persons/veh
Violation rate ⁽³⁾ (HOV Lane)	3.3 %	2.8 %

NOTES: (1) Two or more occupants per vehicle.

- (2) Hybrid HOV lane only/Single occ mixed flow lanes only.
- (3) Violation rate = $\underline{\text{no. of violators in HOV lane } x \ 100\%}$

- (4) HOV lane in operation from 7:00 to 9:00 A.M.
- (5) Observations conducted 10/16/08 at North of Todd Road Interchange.

Northbound - P.M.

Wilfred Avenue to Steele Lane

Typical data for 2008 (5)

PEAK HOUR

	3:00 - 6:30 PM		4:00 - 5:00 PM	
VEHICLES	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	145	23	33	6
Buses	20	3	 10	0
Carpools (1)	1540	786	 480	220
Vanpools	8	0	 0	0
Hybrid/Single Occ. (2)	35	9518	 7	2824
Violators	18		3	_
TOTAL	1766	10330	533	3050
PERSONS	HOV Lane	Mixed Flow Lanes	HOV Lane	Mixed Flow Lanes
Motorcycles	145	23	33	6
Buses	700	105	 350	0
Carpools (1)	3169	1670	 994	474
Vanpools	80	0	 0	0
Hybrid/Single Occ. (2)	35	9518	 7	2824
Violators	18	_	3	_
				

PEAK PERIOD (4)

RATES

TOTAL

HOV Lane occupancy rate	2.3 persons/veh	2.6 persons/veh
Mixed Flow occupancy rate	1.1 persons/veh	1.1 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh
Violation rate (3) (HOV Lane)	1.0 %	0.6 %

11316

1387

3304

NOTES: (1) Two or more occupants per vehicle.

4147

- (2) Hybrid HOV lane only/Single occ mixed flow lanes only.
- (3) Violation rate = $\underline{no. of violators in HOV lane \ x \ 100\%}$

- (4) HOV lane in operation from 3:00 to 6:30 P.M.
- (5) Observations conducted 10/16/08 at North of Todd Road Interchange.

Steele Lane to Wilfred Avenue

Violation History

Southbound

VIOLATION

A.M. PEAK

DATE	MONITORED	VOLUME	RATE
Tue Apr 29, 2008	7:00 - 9:00 AM	699	4.1%
Thu Mar 22, 2007	7:00 - 9:00 AM	781	4.4%
Wed Oct 18, 2006	7:00 - 9:00 AM	705	4.7%
Thu Mar 10, 2005	7:00 - 9:00 AM	1023	3.8%
Thu Oct 7, 2004	7:00 - 9:00 AM	772	2.2%
Thu Apr 10, 2003	6:30 - 9:30 AM	997	4.8%
Tue Dec 10, 2002	6:30 - 9:30 AM	951	5.8%

TOTAL HOVL

PERIOD

P.M. PEAK

Wed Apr 16, 2008	3:00 - 6:30 PM	2276	2.2%
Thu Sep 27, 2007	3:00 - 6:30 PM	2223	2.7%
Thu Apr 27, 2006	3:00 - 6:30 PM	2277	3.6%
Wed Mar 9, 2005	3:00 - 6:30 PM	1967	3.9%
Thu Oct 28, 2004	3:00 - 6:30 PM	2809	1.2%
Thu Apr 10, 2003	3:00 - 7:00 PM	2224	2.7%
Tue Dec 10, 2002	3:00 - 7:00 PM	1645	2.9%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 6:30 PM.

Violation History

Wilfred Avenue to Steele Lane

Northbound

A.M. PEAK

DATE	PERIOD MONITORED	TOTAL HOVL VOLUME	VIOLATION RATE
Thu Oct 16, 2008	7:00 - 9:00 AM	790	3.3%
Wed Mar 28, 2007	7:00 - 9:00 AM	918	3.5%
Wed Oct 25, 2006	7:00 - 9:00 AM	807	3.5%
Tue Mar 15, 2005	7:00 - 9:00 AM	836	4.9%
Thu Oct 14, 2004	7:00 - 9:00 AM	666	4.4%
Wed Apr 9, 2003	6:30 - 9:30 AM	839	6.0%
Thu Dec 5, 2002	6:30 - 9:30 AM	696	6.6%

P.M. PEAK

Thu Oct 16, 2008	3:00 - 6:30 PM	1766	1.0%
Tue Mar 27, 2007	3:00 - 6:30 PM	1982	1.4%
Thu Apr 13, 2006	3:00 - 6:30 PM	1907	3.7%
Thu Oct 6, 2005	3:00 - 6:30 PM	2263	2.0%
Thu Oct 21, 2004	3:00 - 6:30 PM	1945	2.2%
Thu Oct 16, 2003	3:00 - 7:00 PM	2172	3.2%
Thu Dec 5, 2002	3:00 - 7:00 PM	2145	1.9%

NOTES: (a) Morning period of operation from 7:00 to 9:00 AM.

(b) Evening period of operation from 3:00 to 6:30 PM.

VOLUME/PERSON DATA

Westbound - A.M.

Richmond-San Rafael Bridge Toll Plaza

Typical data for 2008 (3)

CONTRA COSTA - 580

Motorcycles 82		EAK PERIOD (2) 6:00 - 10:00 AM	PEAK HOUR 7:00 - 8:00 AM
Buses 10 2 7 7 7 7 7 7 7 7 7	VEHICLES		
Vanpools 16 7 Carpools (1) 955 410 Total HOVs 1063 440 1 Occupancy 1102 331 2 Occupancy 234 68 TOTAL 2399 839 PERSONS Motorcycles 82 21 Buses 350 70 Vanpools 160 70 Carpools (1) 2579 1119 Total HOVs 3171 1280 1 Occupancy 1102 331 2 Occupancy 468 136 TOTAL 4741 1747 RATES HOV Occupancy Rate 3.0 persons/veh 2.9 persons/veh Mixed Flow Occupancy Rate 1.2 persons/veh 1.2 persons/veh			
Carpools (1) 955			
Total HOVs 1063 440			
2 Occupancy 234 68 839	•		
TOTAL 2399 839 PERSONS Motorcycles 82 21 Buses 350 70 Vanpools 160 70 Carpools (1) 2579 1119 Total HOVs 3171 1280 1 Occupancy 1102 331 2 Occupancy 468 136 TOTAL 4741 1747 RATES HOV Occupancy Rate 3.0 persons/veh 2.9 persons/veh Mixed Flow Occupancy Rate 1.2 persons/veh 1.2 persons/veh Overall Occupancy 2.0 persons/veh 2.1 persons/veh	1 Occupancy	1102	331
PERSONS Motorcycles 82 21 Buses 350 70 Vanpools 160 70 Carpools (1) 2579 1119 Total HOVs 3171 1280 1 Occupancy 1102 331 2 Occupancy 468 136 TOTAL 4741 1747 RATES HOV Occupancy Rate 3.0 persons/veh 2.9 persons/veh Mixed Flow Occupancy Rate 1.2 persons/veh 1.2 persons/veh Overall Occupancy 2.0 persons/veh 2.1 persons/veh	2 Occupancy	234	68
Motorcycles 82 21	TOTAL	2399	839
Buses 350 70	PERSONS		
Vanpools 160 70 Carpools (1) 2579 1119 Total HOVs 3171 1280 1 Occupancy 1102 331 2 Occupancy 468 136 TOTAL 4741 1747 RATES HOV Occupancy Rate 3.0 persons/veh 2.9 persons/veh Mixed Flow Occupancy Rate 1.2 persons/veh 1.2 persons/veh Overall Occupancy 2.0 persons/veh 2.1 persons/veh	Motorcycles	82	21
Carpools (1) 2579 1119 1280	Buses	350	70
Total HOVs 3171 1280 1 Occupancy 1102 331 2 Occupancy 468 136 TOTAL 4741 1747 RATES HOV Occupancy Rate 3.0 persons/veh 2.9 persons/veh Mixed Flow Occupancy Rate 1.2 persons/veh 1.2 persons/veh Overall Occupancy 2.0 persons/veh 2.1 persons/veh	Vanpools	160	70
1 Occupancy 1102 331 2 Occupancy 468 136 TOTAL 4741 1747 RATES HOV Occupancy Rate 3.0 persons/veh 2.9 persons/veh Mixed Flow Occupancy Rate 1.2 persons/veh 1.2 persons/veh Overall Occupancy 2.0 persons/veh 2.1 persons/veh	Carpools (1)	2579	1119
2 Occupancy 468 TOTAL 4741 136 RATES HOV Occupancy Rate Mixed Flow Occupancy Rate 1.2 persons/veh Overall Occupancy 2 0 persons/veh 2 1 persons/veh 2 1 persons/veh	Total HOVs	3171	1280
TOTAL 4741 1747 RATES HOV Occupancy Rate Mixed Flow Occupancy Rate Overall Occupancy Overall Occupancy 2.9 persons/veh 1.2 persons/veh 2.1 persons/veh 2.1 persons/veh	1 Occupancy	1102	331
RATES HOV Occupancy Rate Mixed Flow Occupancy Rate 1.2 persons/veh Overall Occupancy 2.9 persons/veh 1.2 persons/veh 2.1 persons/veh	2 Occupancy	468	136
HOV Occupancy Rate Mixed Flow Occupancy Rate 1.2 persons/veh Overall Occupancy 2.9 persons/veh 1.2 persons/veh 2.1 persons/veh 2.2 persons/veh	TOTAL	4741	1747
Occupancy Rate Mixed Flow Occupancy Rate 1.2 persons/veh Overall Occupancy 2.9 persons/veh 1.2 persons/veh 2.9 persons/veh 2.9 persons/veh 2.9 persons/veh	RATES		
Occupancy Rate 1.2 persons/ven 1.2 persons/ven Overall Occupancy 2.0 persons/veh 2.1 persons/veh		3.0 persons/veh	2.9 persons/veh
		1.2 persons/veh	1.2 persons/veh
		2.0 persons/veh	2.1 persons/veh

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

- (2) HOV operation hours from 5:00 to 10:00 AM and 3:00 to 6:00 PM.
- (3) Observations conducted 10/2/08 at Toll Plaza.

Westbound - P.M.

Richmond-San Rafael Bridge Toll Plaza

Typical data for 2008

CONTRA COSTA - 580

	EAK PERIOD (2) 3:00 - 6:00 PM	PEAK HOUR 4:00 - 5:00 PM
Motorcycles Buses Vanpools Carpools (1) Total HOVs 1 Occupancy 2 Occupancy TOTAL	50 6 21 391 468 647 201	16 4 2 152 174 221 59
PERSONS Motorcycles Buses Vanpools Carpools (1) Total HOVs	50 210 210 1101 1571	16 140 20 421 597
1 Occupancy 2 Occupancy TOTAL	647 402 2620	221 118 936
RATES HOV Occupancy Rate	3.4 persons/veh	3.4 persons/veh
Mixed Flow Occupancy Rate Overall Occupancy (incl. buses)	1.2 persons/veh 2.0 persons/veh	1.2 persons/veh 2.1 persons/veh

NOTES: (1) 3 or more persons per vehicle & 2 - seater vehicles with 2 persons.

- (2) HOV operation hours from 5:00 to 10:00 AM and 3:00 to 6:00 PM.
- (3) Observations conducted 10/2/08 at Toll Plaza.

Northbound A.M.

Antioch Bridge Toll Plaza

CONTRA COSTA -160

Typical data for 2008 (3)

	PEAK PERIOD (2) 6:00 to 9:00 A.M.	PEAK HOUR 6:00 to 7:00 A.M.
VEHICLES		
Motorcycles Buses Vanpools Carpools (1) Total HOV 1 Occupancy 2 Occupancy TOTAL	5 2 3 10 20 907 95	1 0 3 0 4 360 14 378
PERSONS		
Motorcycles Buses Vanpools Carpools (1) Total HOV 1 Occupancy 2 Occupancy TOTAL	5 70 30 31 136 907 190	1 0 30 0 31 360 28 419
RATES		
HOV Ocupancy Rate	6.8 persons/veh	7.8 persons/veh
Overall occupancy (incl. buses)	1.2 persons/veh	1.1 persons/veh

- **NOTES:** (1) 3 or more occupants per vehicle & 2-seater vehicles w/2 occupants.
 - (2) HOV operation hours 5:00 to 10:00 AM.
 - (3) Observations conducted 10/30/08 at Toll Plaza

Northbound P.M.

Antioch Bridge Toll Plaza

CONTRA COSTA -160

Typical data for 2008 (3)

	PEAK PERIOD (2) 3:00 to 6:00 P.M.	PEAK HOUR 3:00 to 4:00 P.M.
VEHICLES		
Motorcycles Buses	23 1	7
Vanpools Carpools ⁽¹⁾	5 79	1 25
Total HOV 1 Occupancy	108 1307	469
2 Occupancy TOTAL	<u>344</u> 1759	<u>129</u> 631
PERSONS		
Motorcycles	23	7
Buses	35	0
Vanpools Carpools ⁽¹⁾	50 245	10 78
Total HOV	353	95
1 Occupancy	1307	469
2 Occupancy TOTAL	<u>688</u> 2348	258 822
RATES		
HOV Ocupancy Rate	3.3 persons/veh	2.9 persons/veh
Overall occupancy (incl. buses)	1.3 persons/veh	1.3 persons/veh

- **NOTES:** (1) 3 or more occupants per vehicle & 2-seater vehicles w/2 occupants.
 - (2) HOV operation hours 3:00 to 7:00 PM.
 - (3) Observations conducted 4/10/08 at Toll Plaza